



"POPLAR", from the painting for the pulp and paper industry by A. J. Casson, P.R.C.A.

Reference Tables

April, 1953

CANADIAN PULP AND PAPER ASSOCIATION
SUN LIFE BUILDING, MONTREAL, P.Q.

HD9834
C22C33
1953

JUN 25 1953

McGILL UNIVERSITY

CANADA'S PULP AND PAPER INDUSTRY

1. The Canadian pulp and paper industry is one of the major industrial enterprises of the world.
2. In newsprint paper, Canada has a production five times that of any other country. She provides newsprint for over half the newspaper pages printed throughout the world. Canada is also the leading exporter of pulps in the world; and at the same time has a large production of papers and paperboards of every type and kind.
3. Canada is the greatest exporter of both pulp and of paper in the world. About 82 per cent of her total pulp and paper production moves abroad and 93 per cent of her newsprint is exported.
4. The domestic trade in pulp and paper would alone make the industry a leader in Canadian trade. The fifth of the pulp and paper output sold at home has a value half again as great as Canada's output of gold or of farm implements.
5. Amidst Canadian industry, pulp and paper stands first in employment; first in total wages paid; first in export values; first in value of production; first in capital invested.
6. Canada's output of pulp and paper of about \$1.2 billion a year equals in value Canada's total annual mineral production; it is one and a half times as great as the gross value of production of the automobile industry; and, excluding the bumper crop year of 1952, exceeds in value Canada's output of wheat and all other grains combined.
7. Pulp and paper is exporting at the rate of almost \$1 billion annually. It is the largest item in Canada's trade abroad accounting for 34 per cent of the exports to the United States and 21 per cent of all exports.
8. Fluctuations in the national income closely parallel variations in pulp and paper production. The ups and downs in Canadian exports also closely follow the trend of pulp and paper exports. Prosperity in the industry and in Canada are inseparable.
9. Pulp and paper is the largest industrial buyer of goods and services in the Dominion. In 1951 it paid out \$379 million in wages, \$200 million for transportation, \$210 million for supplies and electricity, and \$115 million for purchases of pulpwood.
10. The annual wage bill of the industry exceeds \$379 million of which \$213 million went to mill workers and the remainder to woods workers. No single industry pays more. No industry has a better labour-management record. Generally, wages and working conditions in the mills are covered by collective labour agreements.
11. In hydro-electric power, Canada is the second nation in the world. Pulp and paper has been largely responsible for the development of Canadian hydro-electric resources. Pulp and paper mills use about one third of all the power generated for industry.
12. There are 86 pulp and paper companies in Canada, some large some small, operating 131 mills in seven provinces. In addition to pulps and newsprint, they have a highly developed production of fine paper, wrapping paper, tissues, paperboard, and other cellulose products.
13. Canada's rag papers, fine papers, specialty papers, wrapping papers, and paperboards are of a quality unsurpassed anywhere. Canada produces a thousand varieties of pulps, papers, paperboards, and specialty pulp and paper products.
14. In the value of its production the pulp and paper industry has headed the list of Canadian peacetime manufacturing industries for a score of years.
15. The value of pulp and paper's annual production is close to six per cent of the gross national product. Thus the operations of the industry generate, directly and indirectly, one of every eight dollars in the income of every Canadian.
16. Including woods operations, pulp and paper produces employment for some 390,000 workers; helps directly to provide a livelihood for a million Canadians; and indirectly supports hundreds of thousands more as one of the chief buyers of transportation, power, fuel, supplies, and equipment.

17. Pulp and paper represents the savings of many thousands of Canadians who, over the years, have received few dividends.

18. The export pulp markets are worth some \$300 million annually to Canada. Paper exports are worth about another \$600 million. Every Canadian has an interest in the maintenance of these markets.

19. The pulp and paper industry has made its own way against world competition without subsidies, price floors, guarantees, or similar forms of public financial assistance. In war or peace, the industry has always been a contributor to — never a drain on — the public treasury. Canada has no better asset, nor any worth more care.

20. The four great sources of Canadian wealth are forests, farms, minerals, and water power. The industry uses the water power to convert the forest crop into dollars of national income chiefly obtained from abroad by exports, and chiefly paid out in wages.

21. Of the average annual forest consumption in the ten years ending 1950, Canadian pulp and paper mills accounted for 20.7 per cent; fuelwood for 20.7 per cent; timber and other products for 38.1 per cent; and fire, insects, and disease for 20.5 per cent.

22. With an investment exceeding \$1¼ billion in plants which cannot be moved and which cannot operate without pulpwood, and as the largest leaseholder of Crown woodlands, pulp and paper has a vital interest in the maintenance of the forests and in their conservation for future use. The industry is engaged in implementing on its limits its declared Forest Policy of perpetual yield.

23. Spurred by self-interest and its responsibilities, pulp and paper employs some hundreds of trained foresters whose aim is the scientific cutting of the forests and their conservation for future use. Selective and other cutting methods pursued encourage natural regrowth. Pulp and paper spends large sums for the protection of the forests from fire and other hazards. The industry operates the best managed forests in Canada.

24. Provincial governments, which control the natural resources, have set up departments to deal with the forests. The Dominion government's expenditures on forest matters have been considerably below the level of expenditures for much less important national assets.

25. Through constant and vigorous research, pulp and paper is discovering new products, using more tree species, eliminating waste, and improving its operations in mills and woods. The Pulp and Paper Research Institute of Canada is recognized as a chief centre of world knowledge on wood, on pulp, and on paper.

26. Over 90 per cent of the Canadian forests are owned by the public. Canada's forests cover an area more than twice that of all her land having a present or potential value for agriculture.

27. Replacement of the annual depletion in the accessible productive forest areas requires an average annual growth of 11 cubic feet per acre. While there is a small growth in many areas, over large tracts the Federal Forestry Branch has recorded growths of from 25 to 40 cubic feet per annum. It appears that the existing forests can supply the present demands made upon them. A reduction in the fire, insect, and disease hazards would permit a substantial development of the forest industries.

28. Through devastation by fire, insects, and disease, about as much of the forest crumbles into decay or goes up in smoke as is used to produce pulp, paper, and paperboard. Unless these ravages be checked, the depletion of the forests will ultimately exceed the increment. Fires often make impossible the proper regeneration of the forests.

29. The forests are and can be maintained as a renewable asset yielding harvests in perpetuity. They are not merely a source of public revenue, they are also a public responsibility demanding adequate expenditures for their maintenance.

30. Because of what pulp and paper means in the economy — in employment, in exports, in expenditures, and in domestic trade — every Canadian benefits from the operations of this great national industry.

INDEX

"A" Forests and Pulpwood

Table

1. Forest extent
2. Forest holdings
3. Forest volume
4. Coniferous stands
5. Forest consumption
6. Forest increment
7. Wood used by mills
8. Species used
9. Pulpwood production, cords
10. Pulpwood production, value
11. Cords, cubic feet and board measure
12. Sources of supply of pulpwood

"B" Production and Markets

13. Pulpwood production
14. Apparent pulpwood production by provinces
15. Pulp supply
16. Total production
17. Output by products
18. Markets
19. Pulp use and sale
20. Paper production
21. Pulp and paper exports

"C" Pulp Statistics

22. Pulp production and exports
23. Chemical pulp production and exports
24. Chemical pulp exports
25. Pulp production in Newfoundland
26. Bleached sulphite pulp
27. Unbleached sulphite pulp
28. Sulphate pulp
29. Mechanical pulp
30. Screenings
31. Defibrated and exploded pulps
32. Other wood-pulps
33. Mechanical pulp utilization
34. Bleached sulphite pulp utilization
35. Unbleached sulphite pulp utilization
36. Sulphate pulp utilization
37. Screenings utilization
38. Defibrated and exploded pulps utilization
39. Other pulps utilization
40. Destination of pulp exports
41. Average values, U.S. imports from Canada and Newfoundland
42. Canadian pulp in U.S. market
43. World pulp figures
44. Exports of unbleached sulphite pulp from Newfoundland
45. Exports of mechanical pulp from Newfoundland

"D" Newsprint

46. Newsprint capacity and production
47. Shipments and mill stocks
48. Daily capacity and production
49. Overseas shipments
50. Value of newsprint production and exports

Table

51. U.S. newsprint production
52. Newfoundland newsprint production
53. Principal newsprint producers overseas
54. Sources of U.S. newsprint supply
55. U.S. newsprint consumption and stocks
56. Consumption by newspapers
57. North American newsprint stocks
58. U.S. newspaper circulation
59. U.S. newspaper milline rates
60. Indexes of U.S. advertising
61. U.S. newspaper pages printed
62. U.S. advertising expenditures and national income
63. U.S. newspaper advertising and total advertising expenditures
64. U.S. newspaper, magazine, radio and TV advertising
65. Value of Canadian newsprint and total pulp and paper production
66. Newsprint and total Canadian exports to United States

"E" Other Paper and Paperboard

67. Production, tons
68. Production, value
69. Building boards and building papers
70. Exports, tons
71. Exports, value

"F" National Significance

72. Paper production and exports
73. Imports of wood-pulp and paper and paper goods
74. Exports and Canadian trade
75. Products of Newfoundland's pulp and paper mills
76. Production by provinces
77. Principal statistics by provinces
78. Exports of Canadian products to U.S.
79. Production and national income
80. Growth of industry
81. Operations of mills
82. Mill locations
83. Capital expenditures
84. Employees and wages
85. Capital, employees and wages
86. Wages paid and numbers employed
87. Growth in employment and wages
88. Domestic trade
89. Principal expenditures
90. Purchases of mill supplies
91. Fuel purchased
92. Electricity purchased
93. Car loadings
94. Payrolls and weekly earnings
95. Power utilization
96. Exports
97. Canadian exports
98. Pulp and paper and mining
99. Ten leading Canadian industries
100. Gross value of Canadian commodity production

Introduction

These tables annually present a succinct picture of pulp and paper operations, their intimate relationship with the forest resources and the forest crop, and something, too, of the importance of the industry in the economy of Canada.

Every effort has been made to include herein as many 1952 figures as possible; but in many instances it has been impossible either to obtain the 1952 figures or to provide informed estimates. Particularly is this so of 1952 dollar value figures many of which will not be available from government sources until the end of 1953.

While the material herein is clearly set forth in the index, it should be noted that in Section "F" may be found, not only the figures revealing the national significance of the industry, but also general statistics covering its operations as a whole.

In most of the newsprint tables in Section "D", the Newfoundland statistics have been consolidated with those of Canada for all preceding years. Elsewhere, the figures prior to 1949 have not been consolidated as Newfoundland statistics were not compiled on the same basis as those of the Dominion Bureau of Statistics. The figures covering Newfoundland's production up to 1948 will be found in Tables 25, 44, 45, 52 and 75.

The publication of these tables has largely been made possible through the kindly aid of L. J. Pouliot, chief of the Forestry Section of the Dominion Bureau of Statistics; and to him grateful acknowledgment is made.

Montreal
April
1953

"A"—FORESTS AND PULPWOOD

Table 1.

Forest Extent — 1952

	Square Miles
Forested Areas of Canada*:	1,320,321
All of which, save for 123,000 square miles, lies within the ten provinces.	
Forested Areas Classed as Unproductive:	555,988
Small trees in adverse locations not expected to reach merchantable size.	
Productive Forest Areas:	764,333
Capable of producing continuous crops of timber.	
Productive Forest Not Presently Accessible:	261,000
Accessible Productive Forests:	503,333
Two-fifths of this area bears trees large enough for use; the remainder is younger growth.	
Privately Owned Forests	
Farm wood lots	35,594
Others	63,851
	99,445
Cutting Rights Leased by the Crown:	
Pulp and paper licences	175,895
Saw timber licences	32,536
Timber sales	3,871
Permit berths	691
	212,993

* Excluding Labrador.

Source: Federal Forestry Branch.

Table 2.

Forest Holdings — 1952

	Sq. Miles	Per Cent
Private holdings	99,445	7.5
Crown Lands		
Leased by pulp and paper cos.	175,895	13.3
Leased by others	37,098	2.8
Unoccupied	1,007,883	76.4
Total Forested Land*	1,320,321	100.0

* Excluding Labrador.

Source: Federal Forestry Branch.

Table 3.

Forest Volume — 1952

In 000,000's of cubic feet of merchantable timber*	
Accessible Forests:	
Conifers	181,423
Broad leaved	51,684
Presently Inaccessible Forests:	
Conifers	104,293
Broad leaved	12,180

* Excluding Labrador.

Source: Federal Forestry Branch.

Table 4.

Coniferous Stands — 1952

Estimated Stands of Accessible Conifers by Provinces		
	Millions of cubic feet	Pulp Production Tons — 1951
Newfoundland*	3,337	†
Prince Edward Island	61	nil
Nova Scotia	2,939	†
New Brunswick	6,100	†
Quebec	45,928	4,282,568
Ontario	54,589	2,484,551
Manitoba	1,004	†
Saskatchewan	5,081	nil
Alberta	7,724	nil
British Columbia	54,660	924,154
Nfld., N.S., N.B. and Manitoba	181,423	1,623,576

† Figures for Nfld., N.S., N.B. and Manitoba are not published separately.

* Excluding Labrador.

Sources: Federal Forestry Branch and Dominion Bureau of Statistics.

Table 5.

Forest Consumption

Average Annual Depletion 1941-1950*			
	000's of cu. ft.	%	%
Logs and bolts for domestic use	1,089,947	30.5	38.3
Logs and bolts for exports	18,686	0.5	0.7
Pulpwood for domestic use	739,365	20.7	26.0
Pulpwood for export	153,503	4.3	5.4
Fuelwood	739,737	20.7	26.0
Ties, poles, pit-props, posts, rails	65,532	1.8	2.3
Miscellaneous	35,917	1.0	1.3
	2,842,687		100.0
Fire	231,524		
Insects and disease	500,000	731,524	20.5
		3,574,211	100.0

* Island of Newfoundland, but not Labrador, included since 1949.

Source: Federal Forestry Branch.

Table 6.

Forest Increment

Complete estimates of the rate of growth of Canadian forests have not been compiled, but the following facts are known:

	Cubic feet per acre
While there is but a small growth in many areas, over considerable tracts growths have been recorded by the Federal Forestry Branch of:	25—40
Managed forests in Scandinavia produce:	28
Replacement of annual depletion in the accessible productive forest areas requires an annual average growth of:	11

The foregoing figures by no means indicate that there is no cause for anxiety regarding the future maintenance of the forests and their proper conservation for use.

Other factors affecting these figures include:

1. While the annual increment appears to exceed the annual depletion, no comprehensive and proper estimate of forest increment in Canada as a whole has yet been prepared.
2. Insects and diseases in the forests periodically reach epidemic proportions; unless checked they will affect the existing balance between depletion and increment.
3. In many instances the depletion is concentrated in the more accessible areas. Growth that accrues in more remote areas is not used.
4. Repeated fires retard and often make impossible the proper regeneration of the forests.
5. Land tenures are often such that there is no economic or other urge upon some loggers to operate along scientific methods.
6. The fire hazard is greater in the more accessible forests, a situation naturally having a bearing on the cutting methods pursued by owners or operators.

Source: Federal Forestry Branch.

Table 7.

Wood Used by Mills — 1951

	Per Cent
From farmers and other small holdings	24
Other purchases, including sawmill waste	12
Total purchased	36
Cut from owned or leased limits	64
	100

Source: Dominion Bureau of Statistics.

Table 8.

Species of Wood Used by Pulp and Paper Mills — 1951

Pulpwood:	Cords	Per Cent
Spruce and Balsam	10,385,917	82.7
Jack Pine	795,201	6.4
Hemlock	568,337	4.5
Poplar	392,866	3.1
Other Kinds (x)	87,050	0.7
	12,229,371	97.4
Other Wood (xx)	324,693	2.6
	12,554,064	100.0

(x) — Includes cedar, red pine, Scotch pine, tamarack, Douglas fir, birch and other hardwoods.

(xx) — Includes chips, slabs and edgings, sawdust, butts, and cores.

Source: Dominion Bureau of Statistics.

Table 9.

Pulpwood Production — Cords

	Apparent Production	Consumption	Exports	Imports
1920	4,024,826	2,777,422	1,247,404	
1921	3,273,131	2,180,578	1,092,553	
1922	3,923,940	2,912,608	1,011,332	
1923	4,654,663	3,270,433	1,384,230	
1924	4,647,201	3,316,951	1,330,250	
1925	5,092,461	3,668,959	1,423,502	
1926	5,621,305	4,229,567	1,391,738	
1927	5,929,456	4,387,687	1,541,769	
1928	6,295,912	4,796,320	1,532,266	32,674
1929	6,536,335	5,278,422	1,294,995	37,082
1930	5,977,183	4,741,349	1,330,466	94,632
1931	5,199,914	4,148,279	1,123,330	71,695
1932	4,222,224	3,647,754	620,124	45,654
1933	4,746,383	4,044,876	718,556	17,049
1934	5,773,970	4,766,604	1,021,285	13,919
1935	6,095,016	5,005,083	1,109,873	19,940
1936	7,002,057	5,775,894	1,235,754	9,591
1937	8,298,165	6,613,639	1,705,031	20,505
1938	6,438,344	4,719,753	1,752,259	33,668
1939	6,899,986	5,386,240	1,539,440	25,694
1940	8,499,922	6,996,119	1,551,429	47,626
1941	9,544,699	7,688,388	1,856,392	81
1942	9,633,574	7,667,438	1,987,850	1,714
1943	8,801,368	7,263,155	1,540,592	2,379
1944	8,668,566	7,177,639	1,499,136	8,209
1945	9,145,673	7,478,508	1,671,298	4,133
1946	10,523,256	8,684,756	1,855,381	16,881
1947	11,484,522	9,551,050	1,983,980	50,508
1948	12,497,926	10,256,549	2,317,346	75,969
1949	11,850,254	10,243,467	1,612,278	5,491
1950	12,873,476	11,166,798	1,734,898	28,220
1951	15,053,910	12,229,371	2,871,173	46,634
1952	14,152,176e	11,689,974e	2,493,262	31,060

e: Canadian Pulp and Paper Association estimate.

Note: Prior to 1946 "Apparent Production" and "Consumption" figures include small quantities of sawmill chips, slabs and edgings, sawdust, butts, and cores.

Apparent production estimated on the basis of consumption plus exports minus imports.

Imports not reported prior to 1928.

All quantities are given in terms of rough or unpeeled wood.

Source: Dominion Bureau of Statistics.

Table 10.

Pulpwood Production — Value

	Apparent Production	Consumption	Exports	Imports
1920	\$61,183,060	\$45,404,889	\$15,778,171	
1921	52,900,872	38,283,262	14,617,610	
1922	50,735,361	40,375,599	10,359,762	
1923	57,119,596	43,594,592	13,525,004	
1924	57,777,640	44,241,582	13,536,058	
1925	62,181,537	48,012,602	14,168,935	
1926	68,262,873	54,195,843	14,067,030	
1927	70,284,895	54,582,190	15,702,705	
1928	74,587,833	59,578,417	15,269,660	\$260,244
1929	76,120,063	63,101,138	13,314,738	295,813
1930	67,529,612	54,788,730	13,611,617	870,735
1931	51,973,243	43,120,740	9,359,592	507,089
1932	36,750,910	32,192,066	4,830,506	271,662
1933	33,213,973	28,609,247	4,696,459	91,733
1934	38,302,807	31,675,325	6,680,307	52,825
1935	41,195,871	34,265,329	7,041,052	110,510
1936	48,680,200	40,455,656	8,276,423	51,879
1937	63,057,205	51,081,661	12,088,329	112,785
1938	53,761,999	40,326,689	13,641,798	206,488
1939	58,302,668	46,558,645	11,901,480	157,457
1940	74,347,132	62,230,155	12,521,880	404,903
1941	88,193,045	72,264,544	15,928,826	325
1942	103,619,151	83,318,870	20,314,253	13,972
1943	110,844,790	92,308,272	18,565,265	28,747
1944	124,363,926	104,477,689	20,012,285	126,048
1945	146,172,701	122,347,847	23,881,928	57,074
1946	183,085,359	154,581,001	28,731,150	226,792
1947	237,488,741	203,738,527	34,528,884	778,670
1948	284,656,819	242,338,302	43,572,868	1,254,351
1949	270,697,980	240,379,337	30,383,947	65,304
1950	285,762,620	252,664,002	33,589,962	491,344
1951	381,920,846	316,600,016	66,077,108	756,278
1952	n.a.	n.a.	61,837,059	559,358

n.a.: Not available.

Apparent production estimated on the basis of consumption plus exports minus imports.

Imports not reported prior to 1928.

All quantities are given in terms of rough or unpeeled wood.

Source: Dominion Bureau of Statistics.

Table 11.

Cords, Cubic Feet, and Board Measure

A standard cord is a stack of wood 4 x 4 x 8 feet containing 128 cubic feet of wood, bark, and interstices. A cord usually contains about 85 cubic feet of solid wood, but the content varies with the size of the logs.

In the lumber industry, wood is usually measured by the board foot. A board foot is the equivalent of a board one inch in thickness and one square foot in surface area. The relationship between board measure and cord measure varies in different sections of the Dominion. Usually, 2 cords are considered to be equivalent to about 1000 feet board measure. But this ratio also varies with the size and type of the wood.

Source: Federal Forestry Branch.

Table 12.

Sources of Supply of Pulpwood, 1951

Provinces and Sources	Proportion	Average value per cord
Quebec	100.00	\$26.79
Purchased	34.64	26.68
From own or leased limits	65.36	26.86
Ontario	100.00	24.99
Purchased	39.88	25.74
From own or leased limits	60.12	24.49
British Columbia	100.00	32.71
Purchased	51.61	35.58
From own or leased limits	48.39	29.64
Other Provinces*	100.00	22.78
Purchased	25.63	22.34
From own or leased limits	74.37	22.94
Canada	100.00	25.89
Purchased	35.43	26.59
From own or leased limits	64.57	25.50

* Newfoundland, Nova Scotia, New Brunswick and Manitoba.

Source: Dominion Bureau of Statistics.

"B"—PRODUCTION AND MARKETS

Table 13.

Pulpwood Production 1951

	Cords	Value
Apparent pulpwood production	15,053,910	\$381,920,846
Pulpwood imports	46,634	756,278
Total supply	15,100,544	\$382,677,124
Less pulpwood exports	2,871,173	66,077,108
Pulpwood used in Canadian mills	12,229,371	\$316,600,016

Source: Dominion Bureau of Statistics.

Table 14.

Apparent Pulpwood Production by Provinces 1951

Provinces	Cords (a)	Value
Quebec	7,099,215	\$186,312,719
Ontario	3,706,147	87,117,822
British Columbia	860,016	28,184,354
Other Provinces	3,388,532	80,305,951
Canada	15,053,910	\$381,920,846

a: Quantities are given in terms of rough or unpeeled wood. One cord of peeled pulpwood is equivalent to 1.125 cords of rough or unpeeled wood.

Source: Dominion Bureau of Statistics.

Table 15.

Pulp Supply 1951

The pulpwood used in the mills together with other pulps resulted in the following supply:

	Tons	Value
Groundwood pulp	5,172,465	\$213,953,064
Chemical pulp	3,814,086	503,997,803
Other pulp*	328,298	9,929,138
Total wood pulp production	9,314,849	\$727,880,005
Wood pulp imports	36,416	4,546,204
Other wood fibre used	12,843	163,187
Other fibres and stock used**	487,509	19,171,143
Total supply	9,851,617	\$751,760,539

* Includes screenings, off-quality, semi-chemical, defibrated and exploded pulp.

** Includes rags, straw, leather scrap and wastepaper.

Source: Dominion Bureau of Statistics.

Table 16.

Total Production 1951

From the foregoing supply of pulps flowed the industry's production as follows:

Pulp Exported	Tons	Value
Mechanical	322,706	\$ 26,741,965
Bleached sulphite	607,315	112,339,792
Unbleached sulphite	555,045	90,017,185
Sulphate	709,467	130,166,335
Other wood pulp	32,958	5,277,337
Chemical pulp screenings	10,020	492,496
Mechanical pulp screenings	5,796	97,774
	2,243,307	\$365,132,884
Pulp for Domestic Use	483,967a	48,698,362b
Total	2,727,274	\$413,831,246

Paper Production

For domestic market	1,865,968	\$254,202,961
Exported	5,359,303c	569,826,688
	7,225,271	\$824,029,649
Gross Production	9,952,545d	\$1,237,860,895

a: Total production less exports and pulp made for mills own use. Some of this tonnage was made for affiliated mills.

b: Gross value of production less pulp for paper production and pulp exports.

c: Excludes tonnage of bags, cartons, and other paper products having value of \$4,279,518.

d: As most of the pulp for domestic sale was utilized in the manufacture of paper, there is some duplication in this figure.

Source: Dominion Bureau of Statistics.

Table 17.

Output by Products 1951

	tons 000'	%	\$ 000,000'	%
Pulp for sale*	2,727.3	27.4	413.8	33.4
Newsprint	5,561.1	55.9	564.4	45.6
Paperboard	960.5	9.6	113.5	9.2
Other Papers	703.6	7.1	146.2	11.8
	9,952.5	100.	\$1,237.9	100.

* Pulp for sale or for transfer to affiliated companies; see also Note d of Table 16.

Source: Dominion Bureau of Statistics.

Table 18.

Markets 1951

These figures show the relation between pulp supply and export markets:

Pulp Exports

	Tons	Value
To U.S.A.	1,831,410	\$276,760,578
To U.K.	217,250	37,770,627
Elsewhere	194,647	50,601,679

Total pulp exports	2,243,307	\$365,132,884
Pulp and other paper stock for domestic use	7,608,310	386,627,655

9,851,617 \$751,760,539

Of the 7,608,310 tons of pulp and other paper stock for domestic use, about 484,000 tons of pulp were sold on the domestic market and 7,124,343 tons of pulp and other paper stock valued at \$337,929,293 were converted into 7,225,271 tons of paper and paper board valued at \$824,029,649. The exports from this production, including paper products, were as follows:

Newsprint Exports (a)

To U.S.A.	4,814,590	\$500,525,110
To U.K.	75,626	7,807,575
To other countries	265,938	32,163,887

5,156,154 \$540,496,572

Other Paper Exports

To U.S.A.	135,734	\$ 15,213,096
To U.K.	18,145	3,292,511
To other countries	49,270	10,824,509

203,149 \$ 29,330,116

Paper Products Exports (b)

To U.S.A.	—	\$ 1,846,238
To U.K.	—	131,969
To other countries	—	2,301,311

— \$ 4,279,518

Paper Exports	5,359,303	\$574,106,206
Pulp and Paper Exports	7,602,610	\$939,239,090

a: Includes mutilated newsprint.

b: Includes bags, box, hanging paper, and miscellaneous paper products.

Source: Dominion Bureau of Statistics.

Table 19.

Pulp Use and Sale 1951

The figures in this table showing the amount of pulp made for various purposes naturally differ fractionally from those of actual exports, domestic sales, and domestic consumption during the 1951 year.

Tons	Made for own use	Made for Domestic Sale	Mader for sale abroad	Total Production
Groundwood	4,743,290	94,231	334,944	5,172,465
Sulphite	1,117,785	237,964	1,189,083	2,544,832
Sulphate	437,958	62,574	716,375	1,216,907
Screenings & others	288,542	44,360	47,743	380,645
	6,587,575	439,129	2,288,145	9,314,849

Source: Dominion Bureau of Statistics.

Table 20.

Paper Production 1951

	Tons	Value
Newsprint	5,561,115	\$564,361,193
Book & Writing	253,081	63,790,259
Wrapping	257,332	49,664,005
Paperboard	960,493	113,469,950
Tissue	89,583	21,574,730
All other	103,667	11,169,512
	7,225,271	\$824,029,649

Source: Dominion Bureau of Statistics.

Table 21.

Pulp and Paper Exports 1952

	Total Exports		To U.S.A.		To Other Countries	
	Tons	Value	Tons	Value	Tons	Value
PULP —						
Sulphate — Kraft	644,923	\$103,505,801	586,464	\$ 90,598,228	58,459	\$ 12,907,573
Bleached	490,986	80,407,020	471,904	76,096,270	19,082	4,310,750
Unbleached	153,937	23,098,781	114,560	14,501,958	39,377	8,596,823
Sulphite — Bleached	569,081	101,002,682	434,721	70,643,195	134,360	30,359,487
Dissolving	339,407	66,364,335	218,424	39,344,175	120,983	27,020,160
Paper Grades	229,674	34,638,347	216,297	31,299,020	13,377	3,339,327
Sulphite — Unbleached	432,126	62,318,100	317,444	43,065,586	114,682	19,252,514
Strong	303,945	43,929,644	232,093	31,317,875	71,852	12,611,769
News	128,181	18,388,456	85,351	11,747,711	42,830	6,640,745
Total Chemical	1,646,130	\$266,826,583	1,338,629	\$204,307,009	307,501	\$ 62,519,574
Mechanical	254,716	20,413,132	210,858	16,215,286	43,858	4,197,846
Other Pulps	28,984	4,293,855	28,742	4,230,153	242	63,702
Screenings	10,752	329,928	10,752	329,928	—	—
Chemical	5,077	205,748	5,077	205,748	—	—
Mechanical	5,675	124,180	5,675	124,180	—	—
Total Miscellaneous	294,452	25,036,915	250,352	20,775,367	44,100	4,261,548
TOTAL PULP	1,940,582	\$291,863,498	1,588,981	\$225,082,376	351,601	\$ 66,781,122
NEWSPRINT PAPER —						
Standard	5,327,430	591,790,209	4,850,962	534,372,859	476,468	57,417,350
Mutilated	26,923	1,951,762	24,102	1,772,271	2,821	179,491
TOTAL NEWSPRINT	5,354,353	\$593,741,971	4,875,064	\$536,145,130	479,289	\$ 57,596,841
OTHER PAPER —						
Wrapping — Coated	944	308,135	9	2,074	935	306,061
Wrapping — Kraft	10,622	2,232,134	2,098	352,693	8,524	1,879,441
Wrapping — n.o.p.	2,369	636,867	197	26,372	2,172	610,495
Book	28,772	5,343,040	22,649	3,599,627	6,123	1,743,413
Bond & Writing	10,130	3,770,853	58	26,478	10,072	3,744,375
Paperboard — n.o.p.	51,605	6,990,766	32,189	3,162,900	19,416	3,827,866
Roofing & Building	1,755	152,225	910	88,907	845	63,318
Building & Insulating Board	19,328	2,096,727	14,915	1,600,942	4,413	495,785
Waste Paper	21,693	936,118	21,679	935,563	14	555
Pulpboard for Wallboard	20,933	2,165,043	20,651	2,132,360	282	32,683
Tissue	924	259,605	—	—	924	259,605
Toilet	2,699	609,977	—	—	2,699	609,977
TOTAL OTHER PAPER	171,774	\$ 25,501,490	115,355	\$ 11,927,916	56,419	\$ 13,573,574
PAPER PRODUCTS — (a)						
Bags, Boxes & Cartons	—	973,982	—	60,015	—	913,967
Bags	—	497,010	—	5,930	—	491,080
Boxes & Cartons	—	476,972	—	54,085	—	422,887
Hangings or Wall Paper	—	1,005,842	—	967,855	—	37,987
Hangings not Printed	—	48,456	—	48,456	—	—
Writing — n.o.p.	—	195,922	—	86,823	—	109,099
Handkerchiefs — Tissues	—	36,796	—	981	—	35,815
Napkins & Towels	—	49,137	—	4,177	—	44,960
Blank Books	—	196,088	—	6,657	—	189,431
Paper — n.o.p.	—	152,459	—	16,997	—	135,462
Other Paper Products	—	234,170	—	52,661	—	181,509
TOTAL PAPER PRODUCTS	—	\$ 2,892,852	—	\$ 1,244,622	—	\$ 1,648,230
GRAND TOTAL	7,466,709	\$913,999,811	6,579,400	\$774,400,044	887,309	\$139,599,767

n.o.p.: Not otherwise provided for.

(a): Weight of paper products is unavailable.

Source: Dominion Bureau of Statistics.

"C" — PULP STATISTICS

All figures after 1948 include Newfoundland

Table 22.

Pulp Production and Exports

All grades: chemical, mechanical and screenings.

	Production		Exports	
	Tons	Value	Tons	Value
1920	1,960,102	\$141,552,862	819,985	\$ 76,383,978
1921	1,549,082	78,338,278	527,222	33,133,675
1922	2,150,251	84,947,598	818,257	41,037,849
1923	2,475,904	99,073,203	875,358	47,027,496
1924	2,465,011	90,323,972	781,983	40,242,972
1925	2,772,507	100,216,383	961,367	47,931,905
1926	3,229,791	115,154,199	1,005,780	52,077,122
1927	3,278,978	114,442,550	879,154	46,996,041
1928	3,608,045	121,184,214	863,801	45,614,823
1929	4,021,229	129,033,154	830,848	43,367,984
1930	3,619,345	112,355,872	760,220	39,059,979
1931	3,167,960	84,780,809	622,537	30,056,643
1932	2,663,248	64,412,453	452,293	18,930,064
1933	2,979,562	64,114,074	608,510	23,354,637
1934	3,636,335	75,726,958	605,641	25,444,844
1935	3,868,341	79,722,039	662,475	27,625,730
1936	4,485,445	92,336,953	754,496	31,246,695
1937	5,141,504	116,729,228	870,716	41,815,731
1938	3,667,789	87,897,148	554,037	27,730,738
1939	4,166,301	97,131,817	705,516	31,000,602
1940	5,290,762	149,005,267	1,068,516	60,930,149
1941	5,720,847	175,439,551	1,411,725	85,897,736
1942	5,606,461	192,145,062	1,510,746	95,266,873
1943	5,272,830	194,519,152	1,556,457	100,012,775
1944	5,271,137	211,041,412	1,408,081	101,563,024
1945	5,600,814	231,873,122	1,434,527	106,054,911
1946	6,615,410	287,624,227	1,418,558	114,020,659
1947	7,253,671	403,853,235	1,698,712	177,802,612
1948	7,675,079	485,966,164	1,797,998	211,564,384
1949	7,852,998	445,138,494	1,557,348	171,504,163
1950	8,473,014	502,583,925	1,846,143	208,555,549
1951	9,314,849	727,880,005	2,243,307	365,132,884
1952	8,799,284e	n.a.	1,940,582	291,863,498

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 23.

Chemical Pulp Production and Exports

All grades. Screenings not included.

	Production		Exports	
	Tons Produced	Value of Production	Tons	Value
1915	331,029	.....	157,469	.....
1916	468,826	.....	229,147	.....
1917	540,423	\$ 38,374,191	261,760	.....
1918	677,683	45,243,446	402,850	.....
1919	725,187	50,003,450	397,578	.....
1920	848,528	90,053,999	515,641	.....
1921	612,467	45,929,513	303,728	.....
1922	897,533	53,615,692	503,487	.....
1923	1,012,092	60,674,518	534,251	.....
1924	986,298	53,336,343	528,283	.....
1925	1,084,992	59,969,673	601,163	.....
1926	1,251,178	69,220,427	623,703	.....
1927	1,278,572	69,169,002	599,478	.....
1928	1,392,755	72,500,188	628,438	.....
1929	1,501,273	76,198,051	585,108	.....
1930	1,265,057	63,156,351	527,800	.....
1931	1,086,735	46,998,988	443,903	.....
1932	913,438	35,987,294	328,532	.....
1933	1,092,601	38,510,217	459,773	.....
1934	1,211,619	44,553,515	472,447	.....
1935	1,276,308	47,153,565	519,480	.....
1936	1,462,659	53,356,519	597,512	.....
1937	1,707,889	69,538,019	680,264	.....
1938	1,124,312	47,990,730	421,597	.....
1939	1,342,448	53,369,808	526,774	.....
1940	1,879,812	92,553,463	857,192	.....
1941	2,122,292	113,128,794	1,121,784	.....
1942	2,246,438	126,208,457	1,213,587	.....
1943	2,188,026	130,010,210	1,259,670	.....
1944	2,109,169	138,140,452	1,156,442	.....
1945	2,154,267	144,084,969	1,145,660	.....
1946	2,427,087	172,756,674	1,131,148	.....
1947	2,755,977	251,273,372	1,357,386	.....
1948	2,997,281	310,338,614	1,481,449	.....
1949	2,891,418	272,355,430	1,335,690	.....
1950	3,314,250	323,330,963	1,584,393	.....
1951	3,814,086	503,997,803	1,904,785	.....
1952	3,581,999e	n.a.	1,675,114	.....

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 24.

Chemical Pulp Exports

All grades. Screenings not included.

	Exports			Total
	Sulphite	Sulphate	Other	
1931	385,421	54,993	3,488	443,902
1932	287,930	38,531	2,071	328,532
1933	395,715	59,320	4,738	459,773
1934	376,460	88,037	7,950	472,447
1935	411,817	96,954	10,709	519,480
1936	464,739	119,400	13,373	597,512
1937	546,141	122,781	11,342	680,264
1938	335,273	76,286	10,039	421,598
1939	408,846	108,869	9,059	526,774
1940	708,806	136,052	12,334	857,192
1941	919,737	185,365	16,682	1,121,784
1942	1,013,505	181,325	18,757	1,213,587
1943	1,056,487	183,291	19,892	1,259,670
1944	960,297	178,876	17,269	1,156,442
1945	942,874	181,015	21,771	1,145,660
1946	906,712	204,769	19,667	1,131,148
1947	1,018,808	316,711	21,867	1,357,386
1948	1,066,534	389,599	25,316	1,481,449
1949	838,059	470,160	27,471	1,335,690
1950	969,340	581,994	33,059	1,584,393
1951	1,162,360	709,467	32,958	1,904,785
1952	1,001,207	644,923	28,984	1,675,114

Source: Dominion Bureau of Statistics.

Table 25.

Pulp Production in Newfoundland

Calendar Year	Production	
	Sulphite Pulp Tons	Mechanical Pulp Tons
1927	58,422	177,470
1928	57,320	174,163
1929	55,515	176,368
1930	65,036	222,665
1931	60,626	220,460
1932	51,808	211,642
1933	42,990	222,665
1934	49,603	256,836
1935	52,326	279,106
1936	49,355	272,512
1937	57,752	295,000
1938	40,609	226,017
1939	52,907	263,395
1940	85,306	308,132
1941	105,065	307,689
1942	118,071	265,219
1943	77,729	239,842
1944	70,466	287,776
1945	77,806	314,144
1946	72,255	331,085
1947	99,391	340,070
1948	115,965	351,726

This table is included for reference purposes only. Since Confederation with Canada in 1949, Newfoundland figures have been incorporated into the Canadian totals.

Sources: 1945-1948 Canadian Pulp and Paper Association, 1927-1944, U.S. Pulp Producers' Association.

Table 26.

Bleached Sulphite Pulp

	Production		Apparent Consumption (b)		Exports		Imports	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
1920	138,624	\$21,301,465	a	a	a	a	a	a
1921	154,804	14,481,158	78,028	\$ 6,943,230	76,801	\$ 7,540,128	25	\$ 2,200
1922	146,690	11,691,904	169	—286,705	146,705	11,993,202	184	14,593
1923	189,935	15,307,069	30,269	1,756,598	159,873	13,568,320	207	17,849
1924	200,764	14,653,587	34,975	2,276,040	165,868	12,383,645	79	6,098
1925	227,465	16,981,584	41,897	2,956,482	185,888	14,049,500	320	24,398
1926	256,868	19,645,060	56,131	3,929,938	200,994	15,734,220	257	19,098
1927	289,313	21,087,792	52,299	2,697,969	237,227	18,407,169	213	17,346
1928	304,769	22,451,771	53,520	3,371,582	251,542	19,112,964	293	32,775
1929	324,548	23,814,234	71,327	4,631,905	253,809	19,246,692	588	64,363
1930	293,394	19,619,367	45,587	1,764,164	249,098	17,954,714	1,291	99,511
1931	301,357	16,978,118	39,858	712,918	261,700	16,282,735	201	17,535
1932	256,478	13,081,700	48,928	1,909,832	207,711	11,181,623	161	9,755
1933	355,812	16,109,572	60,775	1,967,673	295,111	14,145,283	74	3,384
1934	340,262	18,034,000	66,205	3,431,395	274,144	14,607,138	87	4,533
1935	374,157	19,551,605	61,119	3,309,409	313,144	16,249,656	106	7,460
1936	429,714	22,259,923	78,094	3,884,783	351,651	18,376,727	31	1,587
1937	459,041	27,135,378	89,187	5,038,025	369,874	22,099,127	20	1,774
1938	304,834	18,818,095	68,457	3,080,445	236,438	15,742,741	61	5,091
1939	404,268	21,284,125	105,477	4,639,358	299,686	16,697,177	895	52,410
1940	543,987	36,576,496	118,166	6,879,197	427,482	29,812,822	1,661	115,523
1941	590,812	43,408,549	110,246	6,363,374	481,597	37,137,254	1,031	92,079
1942	597,316	43,809,756	135,876	7,618,564	463,301	36,382,124	1,861	190,932
1943	587,538	44,994,159	124,638	7,838,345	465,946	37,528,067	3,046	372,253
1944	585,699	48,767,224	154,570	10,565,098	434,520	38,614,714	3,391	412,588
1945	603,929	50,919,572	144,890	8,799,107	462,038	42,491,042	2,999	370,577
1946	616,797	58,859,624	160,415	12,358,355	460,503	47,013,382	4,121	512,113
1947	704,749	85,671,202	175,628	17,145,844	534,084	69,292,211	4,963	766,853
1948	731,653	99,052,519	185,326	21,459,854	551,617	78,497,251	5,290	904,586
1949	637,091	82,185,350	162,300	18,335,394	483,615	65,100,878	8,824	1,250,922
1950	760,769	101,822,594	210,156	24,957,964	557,858	77,855,345	7,245	990,715
1951	847,160	145,883,749	244,906	34,405,137	607,315	112,339,792	5,061	861,180
1952	773,273e	n.a.	211,177e	n.a.	569,081	101,002,682	6,985	1,200,846

a: Not available prior to 1921.

b: Estimated on the basis of production plus imports minus exports.

c: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 27.

Unbleached Sulphite Pulp

	Production		Apparent Consumption (b)		Exports		Imports	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
1920	515,649	\$ 48,778,369	a	a	a	a	a	a
1921	322,125	22,002,694	208,964	\$14,149,662	127,389	\$ 9,122,612	14,228	\$1,269,580
1922	532,188	29,222,369	339,132	19,607,942	208,446	10,477,746	15,390	863,319
1923	595,891	31,704,333	382,116	20,066,596	228,033	12,406,095	14,258	768,358
1924	567,271	26,829,927	365,345	16,393,942	222,227	11,611,367	20,301	1,175,382
1925	615,320	29,670,655	370,251	16,641,014	265,553	14,150,271	20,484	1,120,630
1926	738,235	35,406,932	501,588	21,969,773	254,574	14,393,546	17,927	956,387
1927	726,747	33,803,631	556,515	24,699,183	192,557	10,269,560	22,325	1,165,112
1928	812,458	35,359,990	620,007	25,658,878	214,126	10,738,977	21,675	1,037,865
1929	911,684	38,144,801	733,636	29,356,266	196,978	9,713,979	18,930	925,444
1930	783,410	32,494,078	608,923	23,907,192	187,424	9,201,250	12,937	614,364
1931	640,222	22,433,990	529,242	17,813,130	123,721	5,146,954	12,741	526,094
1932	512,593	16,174,624	445,446	14,009,417	80,219	2,606,647	13,072	441,440
1933	553,801	15,070,885	458,627	12,171,104	100,604	3,067,525	5,430	167,744
1934	650,380	17,933,546	556,150	14,812,620	102,316	3,373,231	8,086	252,305
1935	644,820	17,546,789	562,251	14,878,220	98,673	3,186,894	16,104	518,325
1936	739,213	19,900,576	645,133	16,873,919	113,088	3,634,971	19,008	608,314
1937	914,191	28,355,232	758,367	21,101,623	176,267	7,907,788	20,443	654,179
1938	575,263	19,037,310	492,398	15,499,591	98,835	4,048,165	15,970	510,446
1939	624,552	19,998,275	534,726	16,696,992	109,160	3,954,980	19,354	653,697
1940	936,558	36,941,108	673,243	22,766,789	281,324	14,857,150	18,009	682,831
1941	1,073,704	46,797,067	651,611	21,708,638	438,140	25,942,972	16,047	854,543
1942	1,156,137	55,524,053	625,522	22,732,914	550,204	33,898,728	19,589	1,107,589
1943	1,125,033	58,076,395	553,108	22,158,932	590,541	36,997,343	18,616	1,079,880
1944	1,023,930	59,891,667	508,509	23,344,259	523,777	37,235,232	10,356	687,824
1945	1,035,755	61,923,471	565,677	27,748,246	480,836	34,916,473	10,758	741,248
1946	1,213,220	76,000,948	777,306	41,652,523	446,209	35,120,122	10,295	771,697
1947	1,322,783	102,483,191	860,180	55,816,292	484,724	48,888,906	22,121	2,222,007
1948	1,406,358	121,374,466	916,736	65,539,977	514,917	58,521,374	25,295	2,686,885
1949	1,354,368	103,606,878	1,023,903	69,939,043	354,444	56,076,547	23,979	2,408,712
1950	1,450,004	111,208,080	1,064,463	71,705,670	411,482	41,842,295	25,941	2,339,885
1951	1,697,672	172,544,639	1,168,385	85,551,347	555,045	90,017,185	25,758	3,023,893
1952	1,593,792e	n.a.	1,189,344e	n.a.	432,126	62,318,100	27,678	2,881,802

a: Not available prior to 1921.

b: Estimated on the basis of production plus imports minus exports.

c: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 28.

Sulphate Pulp

	Production		Apparent Consumption (b)		Exports		Imports	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
1920	188,487	\$19,437,843	55,341a	\$ 6,632,383a	133,146	\$12,805,460	a	\$ a
1921	131,337	9,062,252	31,798a	1,863,029a	99,539	7,199,223	a	a
1922	217,862	12,643,604	69,526a	3,476,786a	148,336	9,166,818	a	a
1923	224,813	13,559,189	78,468a	4,105,431a	146,345	9,453,758	a	a
1924	215,422	11,665,412	75,351	3,338,681	140,183	8,331,931	112	5,200
1925	241,252	13,244,379	91,530	4,085,518	149,722	9,158,861	—	—
1926	250,234	13,829,868	82,100	3,386,330	168,134	10,443,538	—	—
1927	251,266	13,598,815	81,573	3,405,508	169,693	10,193,307	—	—
1928	256,969	13,581,559	94,198	3,985,693	162,771	9,595,866	—	—
1929	250,104	13,191,726	115,783	5,335,259	134,321	7,856,486	c	19
1930	175,449	10,274,666	91,030	5,171,760	86,091	5,151,652	1,672	48,746
1931	136,489	7,153,530	82,479	3,573,549	54,993	3,617,444	983	37,463
1932	137,234	6,374,320	98,709	3,956,657	38,531	2,418,760	6	1,097
1933	171,236	6,859,680	111,918	3,809,541	59,320	3,050,208	2	69
1934	205,980	7,963,110	117,943	3,745,867	88,037	4,217,243	—	—
1935	236,536	9,119,496	139,582	4,209,517	96,954	4,909,979	—	—
1936	273,494	10,234,715	154,095	4,667,531	119,400	5,567,284	1	100
1937	312,741	12,920,977	189,960	6,155,567	122,781	6,765,430	d	20
1938	225,032	9,216,421	149,385	4,806,769	76,286	4,435,757	639	26,105
1939	292,066	11,074,010	184,309	5,379,191	108,869	5,741,152	1,112	46,333
1940	371,569	17,389,346	235,676	8,236,950	136,052	9,161,716	159	9,320
1941	426,743	20,940,034	241,378	8,372,148	185,365	12,567,886	—	—
1942	459,254	24,718,685	277,929	11,825,165	181,325	12,893,520	—	—
1943	441,421	24,636,048	258,130	11,119,381	183,291	13,516,667	—	—
1944	467,726	27,226,197	288,850	13,362,440	178,876	13,863,757	—	—
1945	478,740	28,731,109	297,725	14,360,805	181,015	14,370,304	—	—
1946	562,233	35,246,426	357,464	18,247,821	204,769	16,998,605	—	—
1947	689,435	59,303,735	372,724	22,057,844	316,711	37,245,891	—	—
1948	815,076	84,754,779	425,627	33,359,724	389,599	51,416,115	150	21,060
1949	855,784	81,591,665	387,823	27,045,894	470,160	54,812,327	2,199	266,556
1950	1,053,588	104,512,027	473,779	34,537,674	581,994	70,244,716	2,185	270,363
1951	1,216,907	177,903,281	511,487	48,300,450	709,467	130,166,335	4,047	563,504
1952	1,109,132e	n.a.	468,739e	n.a.	644,923	103,505,801	4,530	622,355

a: Imports not available prior to 1924.

b: Estimated on basis of production plus imports minus exports.

c: 700 pounds only.

d: 900 pounds only.

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 29.

Mechanical Pulp

	Production		Apparent Consumption (b)		Exports		Imports	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
1920	1,090,114	\$ 49,890,337	a	\$ a	304,344	\$17,574,806	a	\$ a
1921	931,560	32,313,848	a	a	223,494	9,271,712	a	a
1922	1,241,185	31,079,429	a	a	314,770	9,400,083	a	a
1923	1,419,547	37,587,379	a	a	341,107	11,599,323	a	a
1924	1,427,726	36,163,381	1,176,962	28,361,101	253,700	7,916,029	2,936	113,749
1925	1,621,917	39,130,117	1,263,066	28,601,684	360,204	10,573,273	1,353	44,840
1926	1,901,268	44,800,257	1,521,914	33,402,964	382,077	11,505,818	2,723	108,525
1927	1,922,124	44,174,811	1,661,645	36,437,822	260,831	7,761,464	352	24,475
1928	2,127,699	47,549,324	1,924,218	42,022,091	203,670	5,546,120	189	18,887
1929	2,420,774	51,617,360	2,211,640	45,734,836	209,332	5,906,638	198	24,114
1930	2,283,130	48,317,494	2,076,976	42,413,073	208,758	5,967,172	2,604	62,751
1931	2,016,480	37,096,768	1,851,786	32,497,323	165,098	4,606,167	404	6,722
1932	1,696,021	28,018,451	1,579,832	25,459,838	116,229	2,562,089	40	3,476
1933	1,824,553	25,150,963	1,692,559	22,466,458	132,152	2,688,023	158	3,518
1934	2,340,441	30,556,675	2,220,352	27,829,717	120,121	2,727,902	32	944
1935	2,504,595	32,034,716	2,380,657	29,408,820	124,055	2,631,945	117	6,049
1936	2,910,358	38,251,389	2,776,863	35,412,990	133,518	2,841,051	43	2,652
1937	3,308,517	46,144,208	3,142,130	42,028,791	166,802	4,145,552	415	30,135
1938	2,461,997	39,228,178	2,338,032	36,330,722	124,205	2,914,247	240	16,791
1939	2,738,011	43,062,396	2,569,380	38,973,434	168,652	4,090,177	21	1,215
1940	3,305,484	55,504,763	3,101,536	49,244,546	204,090	6,265,069	142	4,852
1941	3,494,922	61,327,268	3,227,335	52,614,791	271,162	8,835,808	3,575	123,331
1942	3,260,097	64,801,837	2,981,732	54,294,388	278,365	10,507,449	—	—
1943	2,998,913	63,426,919	2,726,013	53,358,327	272,900	10,068,592	—	—
1944	3,076,296	71,668,673	2,839,751	61,534,290	236,545	10,134,383	—	—
1945	3,341,920	86,375,001	3,068,767	74,327,944	273,906	12,101,310	753	54,253
1946	3,997,848	111,514,231	3,729,613	98,950,120	268,290	12,571,257	55	7,146
1947	4,275,269	147,423,552	3,957,351	128,403,870	319,160	19,098,908	1,242	79,226
1948	4,413,513	168,343,496	4,119,262	149,273,279	296,520	19,257,283	2,269	187,066
1949	4,718,806	166,591,741	4,511,809	154,699,884	207,359	11,920,602	362	28,745
1950	4,910,803	173,035,433	4,664,432	159,085,406	247,556	14,037,566	1,185	87,539
1951	5,172,465	213,953,064	4,851,307	187,308,056	322,706	26,741,965	1,548	96,957
1952	5,102,300e	n.a.	4,862,980e	n.a.	254,716	20,413,132	15,396	794,090

a: Imports not available prior to 1924.

b: Estimated on basis of production plus imports minus exports.

c: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 30.

Screenings

Screenings — Chemical and Mechanical									
	Production		Apparent Consumption (b)		Exports		Imports		
	Tons	Value	Tons	Value	Tons	Value	Tons	Value	
1923	43,966	\$ 797,506	c	c	c	c	—	—	
1924	50,777	816,248	c	c	c	c	—	—	
1925	65,364	1,106,633	c	c	c	c	—	—	
1926	77,310	1,132,290	c	c	c	c	—	—	
1927	78,282	1,098,737	59,437	\$ 734,196	18,845	\$ 364,541	—	—	
1928	87,591	1,134,702	55,898	513,806	31,693	620,896	—	—	
1929	99,182	1,217,743	62,774	573,554	36,408	644,189	—	—	
1930	71,158	882,027	47,496	466,421	23,662	415,606	—	—	
1931	64,745	685,053	51,209	460,619	13,536	224,434	—	—	
1932	53,789	406,708	46,257	328,771	7,532	77,937	—	—	
Screenings — Chemical									
1933	27,700	228,953	18,661	83,441	9,039	145,512	—	—	
1934	29,851	296,107	21,540	156,301	8,311	139,806	—	—	
1935	28,230	226,254	19,919	116,561	8,311	109,693	—	—	
1936	38,504	305,942	27,718	172,549	10,786	133,393	—	—	
1937	48,871	527,450	38,765	360,376	10,106	167,074	—	—	
1938	22,739	198,939	20,113	155,468	2,626	43,471	—	—	
1939	27,760	231,642	24,400	192,908	3,360	38,734	—	—	
1940	42,741	434,257	39,725	379,621	3,016	54,636	—	—	
1941	48,270	560,969	36,668	332,063	11,602	228,906	—	—	
1942	51,905	727,736	40,096	468,801	11,809	258,935	—	—	
1943	51,053	787,239	33,219	379,227	17,834	408,012	—	—	
1944	48,826	803,729	37,706	486,508	11,120	317,221	—	—	
1945	53,121	797,527	42,725	487,527	10,396	310,000	—	—	
1946	66,277	1,268,027	54,951	877,146	11,326	390,881	—	—	
1947	82,228	2,125,787	69,335	1,474,569	12,893	651,218	—	—	
1948	83,894	2,288,892	72,357	1,799,377	11,537	489,515	—	—	
1949	71,179	1,579,401	65,010	1,435,838	6,169	143,563	—	—	
1950	73,276	1,559,097	65,518	1,348,063	7,758	211,034	—	—	
1951	86,945	2,714,728	76,925	2,222,232	10,020	492,496	—	—	
1952	70,550e	n.a.	65,473e	n.a.	5,077	205,748	—	—	
Screenings — Mechanical									
1933	34,496	181,481	26,950	105,140	7,546	76,341	—	—	
1934	54,324	318,648	49,562	282,493	4,762	36,155	—	—	
1935	59,116	289,104	48,487	217,157	10,629	71,947	—	—	
1936	73,944	423,103	61,264	320,896	12,680	102,207	—	—	
1937	76,227	519,551	62,683	374,017	13,544	145,534	—	—	
1938	58,741	479,301	53,132	423,609	5,609	55,692	—	—	
1939	58,082	467,971	51,352	399,120	6,730	68,851	—	—	
1940	62,725	512,784	58,507	450,542	4,218	62,242	—	—	
1941	55,363	422,520	48,186	334,229	7,177	88,291	—	—	
1942	48,021	407,032	41,036	323,913	6,985	83,119	—	—	
1943	34,838	294,784	28,785	245,482	6,053	49,302	—	—	
1944	36,846	428,558	32,872	387,684	3,974	40,874	—	—	
1945	38,953	348,424	34,388	306,599	4,565	41,825	—	—	
1946	68,876	863,096	61,082	700,505	7,794	162,591	—	—	
1947	69,360	1,237,425	60,087	1,139,287	9,273	98,138	—	—	
1948	69,101	1,092,077	60,609	997,744	8,492	94,333	—	—	
1949	54,143	1,029,384	46,013	949,097	8,130	80,287	—	—	
1950	32,573	611,620	26,137	533,239	6,436	78,381	—	—	
1951	43,266	1,057,328	37,470	959,554	5,796	97,774	—	—	
1952	44,435e	n.a.	38,760e	n.a.	5,675	124,180	—	—	

a: Estimated on basis of known quantity and value "made for export" prior to 1946.

b: Estimated on basis of production plus imports minus exports.

c: Exports not available prior to 1927.

Note: Screenings were not reported separately prior to 1923. It is assumed that these were included with "Other wood-pulps".

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 31.

Defibrated and Exploded Pulps

	Production		Apparent Consumption (b)		Exports		Imports		
	Tons	Value	Tons	Value	Tons	Value	Tons	Value	
1946	48,009	\$1,019,492	48,009	\$1,019,492	—	—	—	—	
1947	52,613	1,244,072	52,613	1,244,072	—	—	—	—	
1948	65,636	2,544,930	65,636	2,544,930	—	—	—	—	
1949	75,403	2,289,933	75,403	2,289,933	—	—	—	—	
1950	88,962	2,548,544	88,962	2,548,544	—	—	—	—	
1951	113,166	3,500,575	113,166	3,500,575	—	—	—	—	

a: Estimated on basis of production plus imports minus exports.

Note: Prior to 1946 defibrated and exploded fibres were not considered as pulps and were shown only as paper-making materials under the headings "Other wood fibre purchased" or "Other fibre and stock purchased".

Source: Dominion Bureau of Statistics.

Table 32.

Other Wood-Pulps

Year	Production		Apparent Consumption (b)		Exports		Imports	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
Including certain grades of chemical, semi-chemical, and mechanical pulp.								
1920	27,228	\$2,144,848	a	a	a	a	a	a
1921	9,256	478,326	a	a	a	a	3,101	\$411,261
1922	12,326	310,292	a	a	a	a	1,726	130,615
1923	1,752	117,727	a	a	a	a	2,764	161,018
1924	3,051	195,417	a	a	a	a	1,068	75,562
1925	1,189	83,015	a	a	a	a	1,266	84,674
1926	5,876	339,792	a	a	a	a	2,031	127,178
1927	11,246	678,764	a	a	a	a	787	51,600
1928	18,559	1,106,868	a	a	a	a	267	18,274
1929	14,937	1,047,290	a	a	a	a	158	10,629
1930	12,804	768,240	7,639	\$ 400,145	5,187	\$ 369,585	22	1,490
1931	8,667	433,350	5,268	259,531	3,488	178,909	89	5,090
1932	7,133	356,650	5,102	277,118	2,071	83,008	40	3,476
1933	11,964	512,540	7,385	334,313	4,737	181,745	158	3,518
1934	15,097	624,872	7,147	281,503	7,950	343,369	—	—
1935	20,887	954,075	10,229	490,983	10,709	465,616	51	2,524
1936	20,238	961,505	6,983	375,189	13,373	591,062	118	4,946
1937	21,916	1,126,432	10,750	550,917	11,342	585,226	176	9,711
1938	19,183	918,904	9,213	431,280	10,039	490,665	69	3,041
1939	21,562	1,013,398	12,685	613,353	9,059	409,531	182	9,486
1940	27,698	1,646,513	15,389	931,860	12,334	716,514	25	1,861
1941	31,033	1,983,144	14,351	886,525	16,682	1,096,619	—	—
1942	33,731	2,155,963	14,974	912,965	18,757	1,242,998	—	—
1943	34,034	2,303,608	14,142	858,816	19,892	1,444,792	—	—
1944	31,814	2,255,364	14,545	898,521	17,269	1,356,843	—	—
1945	48,396	2,778,018	26,625	954,061	21,771	1,823,957	—	—
1946	42,150	2,852,383	22,483	1,088,562	19,667	1,763,821	—	—
1947	57,234	4,364,271	35,367	1,836,931	21,867	2,527,340	—	—
1948	89,848	6,515,005	64,532	3,226,492	25,316	3,288,513	—	—
1949	86,224	6,264,152	58,821	2,902,344	27,471	3,369,959	68	8,151
1950	103,039	7,286,530	70,007	3,004,090	33,059	4,286,212	27	3,772
1951	137,268	10,322,641	104,312	5,045,974	32,958	5,277,337	2	670
1952	105,802e	n.a.	76,818e	n.a.	28,984	4,293,855	—	—

a: Not available prior to 1930.

b: Estimated on basis of production plus imports minus exports.

c: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 33.

Mechanical Pulp Utilization

Year	Production		Made for own use		Made for export		Made for domestic sale	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
1920	1,090,114	\$49,890,337	702,519	\$23,505,693	280,516	\$19,958,761	107,079	\$6,425,883
1921	931,560	32,313,848	643,164	20,267,227	255,680	10,837,011	32,716	1,209,610
1922	1,241,185	31,079,429	888,783	20,540,929	304,590	9,222,381	47,812	1,316,119
1923	1,419,547	37,587,379	1,024,051	23,904,778	353,352	12,295,143	42,144	1,387,458
1924	1,427,726	36,163,381	1,088,877	26,064,031	265,083	7,921,074	73,766	2,178,276
1925	1,621,917	39,130,117	1,211,558	27,492,409	335,962	9,593,020	74,397	2,044,688
1926	1,901,268	44,800,257	1,471,982	33,190,921	402,228	10,913,798	27,058	695,538
1927	1,922,124	44,174,811	1,665,859	37,421,874	241,358	6,347,800	14,907	405,137
1928	2,127,699	47,549,324	1,926,063	42,641,890	190,545	4,611,424	11,091	296,010
1929	2,420,774	51,617,560	2,179,035	45,662,246	221,598	5,392,698	20,141	562,416
1930	2,283,130	48,317,494	2,049,581	42,504,632	217,182	5,418,702	16,367	394,160
1931	2,016,480	37,096,768	1,822,083	32,655,912	186,082	4,224,234	8,315	216,622
1932	1,696,021	28,018,451	1,551,703	25,238,000	130,377	2,510,950	13,941	269,501
1933	1,824,553	25,150,963	1,667,921	22,557,925	142,154	2,324,549	14,478	268,489
1934	2,340,441	30,556,675	2,184,522	27,702,260	145,441	2,643,403	10,478	211,012
1935	2,504,595	32,034,716	2,353,055	29,457,426	140,819	2,375,395	10,721	201,895
1936	2,910,338	38,251,389	2,743,712	35,253,678	157,462	2,798,240	9,164	199,471
1937	3,308,517	46,144,208	3,122,677	42,173,942	174,856	3,714,485	10,984	255,781
1938	2,461,997	39,228,178	2,301,546	35,870,198	152,175	3,154,105	8,276	203,875
1939	2,738,011	43,062,396	2,557,172	38,948,923	169,615	3,843,272	11,224	270,201
1940	3,305,484	55,504,763	3,068,875	48,709,161	219,156	6,280,828	17,453	514,774
1941	3,494,922	61,327,268	3,204,132	52,246,938	270,744	8,458,142	20,046	622,188
1942	3,260,097	64,801,837	2,958,683	54,293,231	285,134	10,020,256	16,280	488,350
1943	2,998,913	63,426,919	2,761,063	54,548,106	227,082	8,503,813	10,768	375,000
1944	3,076,296	71,668,673	2,842,316	62,207,170	222,944	9,082,705	11,036	378,798
1945	3,341,920	86,375,001	3,058,254	74,383,799	272,048	11,569,715	11,618	421,487
1946	3,997,848	111,514,231	3,712,324	97,612,211	267,273	13,170,735	18,251	731,285
1947	4,275,269	147,423,552	3,927,747	126,650,089	313,485	19,210,050	34,037	1,563,413
1948	4,413,513	168,343,496	4,083,545	146,928,866	290,374	18,926,446	39,594	2,488,184
1949	4,718,806	166,591,741	4,424,606	151,832,799	215,854	11,984,331	78,346	2,774,611
1950	4,910,803	173,035,433	4,566,281	154,307,495	261,149	15,437,321	83,373	3,290,617
1951	5,172,465	213,953,064	4,743,290	181,765,713	334,944	28,165,136	94,231	4,022,215
1952	5,102,300e	n.a.	4,824,207e	n.a.	248,802e	n.a.	31,488e	n.a.

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Note: Tonnage "made for export" differs slightly from actual exports.

Table 34.

Bleached Sulphite Pulp Utilization

Year	Production		All grades		Made for export		Made for domestic sale	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
1920	138,624	\$21,301,465	3,630	\$ 471,323	98,924	\$15,191,918	36,070	\$5,638,224
1921	154,804	14,481,158	43,291	3,323,989	95,471	9,424,191	16,042	1,732,978
1922	146,690	11,691,904	7,248	575,791	66,072	4,822,035	73,370	6,294,078
1923	189,935	15,307,069	10,004	770,537	62,937	4,718,206	116,994	9,818,326
1924	200,764	14,653,587	14,355	1,085,957	63,495	4,467,518	122,914	9,100,112
1925	227,465	16,981,584	18,817	1,397,013	188,225	14,010,078	20,423	1,574,493
1926	256,868	19,645,060	20,893	1,466,456	209,132	16,087,135	26,843	2,091,469
1927	289,313	21,087,792	22,228	1,587,816	240,388	17,433,858	26,697	2,066,118
1928	304,769	22,451,771	26,906	1,943,274	248,876	18,283,405	28,987	2,225,092
1929	324,548	23,814,234	22,953	1,594,513	261,982	19,191,199	39,613	3,028,522
1930	293,394	19,619,367	20,624	1,355,956	250,590	16,718,331	22,180	1,545,080
1931	301,357	16,978,118	22,932	1,385,381	256,225	14,217,203	22,200	1,375,534
1932	256,478	13,081,700	21,600	1,217,878	197,887	9,986,973	36,991	1,876,849
1933	355,812	16,109,572	21,330	1,049,613	298,807	13,351,247	35,675	1,708,712
1934	340,262	18,034,000	21,953	1,134,018	282,950	14,923,285	35,359	1,976,697
1935	374,157	19,551,605	26,422	1,324,147	306,880	16,005,916	40,855	2,221,542
1936	429,714	22,259,923	27,930	1,442,039	350,598	18,171,792	51,186	2,646,092
1937	459,041	27,135,378	31,138	1,625,488	376,816	22,408,866	51,087	3,101,024
1938	304,834	18,818,095	32,565	1,679,016	229,222	14,693,602	43,047	2,445,477
1939	404,268	21,284,125	38,917	1,877,350	312,490	16,748,534	52,861	2,658,241
1940	543,987	36,576,496	47,429	2,713,333	430,498	29,534,721	66,060	4,328,442
1941	590,812	43,408,549	50,500	2,880,325	471,819	35,759,039	68,493	4,769,185
1942	597,316	43,809,756	53,071	3,208,471	464,708	34,956,661	79,537	5,644,624
1943	587,538	44,994,159	50,636	3,196,336	456,772	35,970,277	80,130	5,827,546
Dissolving Pulp								
1944	235,417	21,198,634	—	—	216,754	19,556,214	18,663	1,642,420
1945	233,826	22,025,991	—	—	210,570	20,093,763	23,256	1,932,228
1946	271,563	29,401,676	—	—	252,811	27,586,624	18,752	1,815,052
1947	306,927	41,705,429	—	—	283,478	38,507,548	23,449	3,197,881
1948	340,946	50,689,685	—	—	323,312	47,981,783	17,634	2,707,902
1949	262,972	39,455,746	—	—	239,722	35,990,058	23,250	3,465,688
1950	335,736	52,891,624	—	—	299,700	47,322,786	36,036	5,568,838
1951	408,969	81,904,028	—	—	374,789	75,572,450	34,180	6,331,578
1952	378,046e	n.a.	—	—	n.a.	n.a.	n.a.	n.a.
Paper Pulp								
1944	350,282	27,568,590	58,001	3,875,298	230,536	19,161,223	61,745	4,532,069
1945	370,103	28,893,581	59,125	3,977,471	242,335	20,280,140	68,553	4,635,970
1946	345,234	29,457,948	60,672	4,717,451	210,053	19,179,403	74,509	5,561,094
1947	397,822	43,965,773	67,988	6,357,838	240,782	29,007,025	89,052	8,600,910
1948	390,707	48,362,834	66,085	7,325,265	235,632	30,597,053	88,990	10,440,516
1949	374,119	42,729,604	68,206	7,581,410	227,872	26,513,720	78,041	8,634,474
1950	425,033	48,930,970	73,857	7,959,913	259,412	31,611,438	91,764	9,359,619
1951	438,191	63,979,721	80,892	10,238,053	249,733	39,889,189	107,566	13,852,479
1952	395,227e	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Note: Tonnage "made for export" differs slightly from actual exports.

Source: Dominion Bureau of Statistics.

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Table 35.

Unbleached Sulphite Pulp Utilization

Year	Production		All grades		Made for export		Made for domestic sale	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
1920	515,649	\$48,778,369	199,507	\$13,210,198	235,148	\$26,871,141	80,994	\$8,697,030
1921	615,320	29,670,655	342,556	15,946,841	238,680	12,046,571	34,084	1,677,243
1922	783,410	32,494,078	562,351	22,609,783	184,357	8,204,866	36,702	1,679,429
1923	640,222	22,433,990	484,372	16,685,105	127,768	4,655,237	28,082	1,093,648
1924	512,593	16,174,624	423,420	13,295,206	68,926	2,131,936	20,247	747,482
1925	553,801	15,070,885	420,524	11,253,461	101,697	2,832,123	31,580	985,301
1926	650,380	17,933,546	514,888	13,260,916	101,424	3,545,144	34,068	1,127,486
1927	644,820	17,546,789	510,718	13,148,182	96,794	3,196,209	37,308	1,202,398
1928	739,213	19,900,576	593,082	15,101,762	105,843	3,440,025	40,288	1,358,789
1929	914,191	28,355,232	680,272	18,387,452	181,543	8,219,273	52,376	1,748,507
1930	575,263	19,037,310	448,196	14,122,812	88,216	3,503,632	38,851	1,410,866
1931	624,552	19,998,275	471,622	14,295,782	109,707	4,175,986	43,223	1,526,507
1932	936,558	36,941,108	583,996	19,349,378	302,723	15,521,265	49,839	2,070,465
1933	1,073,704	46,797,067	607,581	20,602,150	413,496	23,802,433	52,627	2,392,484
1934	1,156,137	55,524,053	553,291	20,479,162	554,653	32,745,486	48,193	2,299,405
1935	1,125,033	58,076,395	500,925	19,991,947	578,824	35,781,920	45,284	2,302,528
Strong Grade								
1944	232,634	15,332,609	38,353	1,885,403	185,984	12,941,871	8,297	505,335
1945	246,020	16,744,422	35,888	1,814,052	196,108	14,018,841	16,024	911,529
1946	271,026	20,734,898	37,497	2,152,375	216,597	17,389,919	16,932	1,192,604
1947	207,983	19,848,112	37,759	2,568,576	160,726	16,452,803	9,498	826,733
1948	242,066	25,693,454	43,194	3,493,971	191,130	21,397,082	7,742	802,401
1949	217,351	20,636,054	49,299	3,896,076	158,412	15,806,676	9,640	953,302
1950	284,977	26,618,910	50,711	3,831,446	223,031	21,737,977	11,235	1,049,488
1951	403,148	57,589,465	57,454	4,581,450	335,880	51,699,915	9,834	1,308,100
1952	473,518e	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
News Grade								
1944	791,296	44,559,058	415,496	18,548,309	338,455	24,102,446	37,345	1,908,303
1945	789,735	45,179,049	484,345	23,478,246	275,497	20,050,133	29,893	1,650,670
1946	942,194	55,266,050	662,899	34,513,585	231,994	18,006,804	47,301	2,745,661
1947	1,114,800	62,635,079	721,992	44,881,325	320,659	32,208,888	72,149	5,544,866
1948	1,164,292	95,681,012	768,502	52,170,718	326,496	37,066,911	69,294	6,443,383
1949	1,137,017	82,950,824	872,389	57,187,884	206,535	20,752,362	58,093	5,010,578
1950	1,165,027	84,589,170	907,584	59,370,274	192,844	19,647,268	64,599	5,571,628
1951	1,294,524	114,955,174	979,459	70,806,492	228,681	34,948,658	86,384	9,200,024
1952	1,120,274e	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Note: Tonnage "made for export" differs slightly from actual exports.

Source: Dominion Bureau of Statistics.

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Table 36.

Sulphate Pulp Utilization

Year	Production		Made for own use		Made for export		Made for domestic sale	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
1920	188,487	\$19,437,843	51,041	\$4,058,745	132,468	\$14,795,631	4,978	\$ 583,467
1921	131,337	9,062,252	24,903	1,990,272	101,461	6,813,671	4,973	258,309
1922	217,862	12,643,604	48,611	2,875,567	156,499	9,120,541	12,752	647,496
1923	224,813	13,559,189	52,803	2,886,829	162,200	10,065,224	9,810	607,136
1924	215,422	11,665,412	53,615	2,642,705	153,661	8,572,496	8,146	450,211
1925	241,252	13,244,379	57,218	2,686,666	174,640	10,044,519	9,394	513,194
1926	250,234	13,829,868	58,771	2,697,736	183,017	10,616,841	8,446	515,291
1927	251,266	13,598,815	62,415	2,849,904	178,039	10,126,434	10,812	622,477
1928	256,969	13,581,559	68,853	3,038,540	175,315	9,835,215	12,801	707,804
1929	250,104	13,191,726	80,705	3,720,054	144,412	8,194,428	24,987	1,277,244
1930	175,449	10,274,666	68,219	3,390,860	95,369	6,223,148	11,861	660,658
1931	136,489	7,153,530	66,595	3,030,078	56,738	3,379,939	13,156	743,513
1932	137,234	6,374,320	72,527	2,921,326	45,728	2,583,940	18,979	869,054
1933	171,236	6,859,680	82,647	2,714,549	65,921	3,126,646	22,668	1,018,485
1934	205,980	7,963,110	99,133	2,904,586	84,548	3,975,192	22,299	1,083,332
1935	236,536	9,119,496	108,635	3,105,874	97,551	4,627,928	30,350	1,385,694
1936	273,494	10,234,715	125,386	3,406,156	116,000	5,388,004	32,108	1,440,555
1937	312,741	12,920,977	152,918	4,295,794	125,790	6,882,697	34,033	1,742,486
1938	225,032	9,216,421	119,817	3,831,693	77,583	4,038,182	27,632	1,346,546
1939	292,066	11,074,010	154,755	4,650,666	104,797	4,905,738	32,514	1,517,606
1940	371,569	17,389,346	191,734	6,080,775	138,388	9,021,053	41,447	2,287,518
1941	426,743	20,940,034	215,456	7,175,462	167,166	11,144,647	44,121	2,619,925
1942	459,254	24,718,685	225,481	8,282,287	181,089	13,254,331	52,684	3,182,067
1943	441,421	24,636,048	211,988	8,494,224	182,410	13,462,641	47,023	2,679,183
1944	467,726	27,226,197	242,405	10,747,651	179,313	13,981,790	46,008	2,496,756
1945	478,740	28,731,109	249,816	11,786,501	182,189	14,264,401	46,735	2,680,207
1946	562,233	35,246,426	318,258	15,579,086	201,913	16,907,709	42,062	2,759,631
Bleached								
1947	194,326	24,214,603	7,320	743,782	171,084	21,692,816	15,922	1,778,005
1948	255,346	37,227,821	12,320	1,735,157	227,287	33,283,808	15,739	2,208,856
1949	362,283	46,552,144	15,347	1,745,940	331,709	42,786,936	15,227	2,019,268
1950	436,810	58,225,315	17,144	2,140,134	398,258	53,264,888	21,408	2,820,293
1951	524,658	98,296,448	22,239	3,842,237	471,086	88,909,035	31,333	5,545,176
1952	545,629e	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Semi-bleached								
1947	21,451	2,010,424	8,969	651,244	12,482	1,359,180	—	—
1948	17,060	1,861,103	9,657	861,712	7,403	999,391	—	—
1949	10,184	899,759	8,759	724,816	1,419	174,221	6	722
1950	12,897	1,321,272	9,961	900,681	2,936	420,591	—	—
1951	11,054	1,150,508	10,993	1,141,000	61	9,508	—	—
1952	15,367e	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Unbleached								
1947	473,658	33,078,708	323,558	18,606,267	122,408	12,331,866	27,692	2,140,575
1948	542,670	45,665,855	352,956	24,059,761	160,932	18,773,949	28,782	2,832,145
1949	483,317	34,139,752	339,045	21,401,440	121,145	10,467,111	23,127	2,271,201
1950	603,881	44,965,440	380,829	23,963,038	191,318	17,929,068	31,734	3,073,334
1951	681,195	78,456,325	404,726	32,090,906	245,228	42,327,661	31,241	4,037,758
1952	548,136e	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Note: Tonnage "made for export" differs slightly from actual exports.

e: Canadian Pulp and Paper Association estimate.

Source: Dominion Bureau of Statistics.

n.a.: Not available.

Table 37.

Screenings Utilization

Year	Production		Made for own use		Made for export		Made for domestic sale	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
Screenings — Chemical								
1933	27,700	228,953	10,479	54,361	6,549	75,589	10,672	99,003
1934	29,851	296,107	11,716	67,768	10,322	130,613	7,813	97,726
1935	28,230	226,254	11,672	65,760	7,434	75,079	9,124	85,415
1936	38,504	305,942	16,287	103,515	8,723	88,547	13,494	113,880
1937	48,871	527,450	21,438	156,129	10,959	165,736	16,474	205,585
1938	22,739	198,939	13,440	108,531	3,988	32,125	5,311	58,283
1939	27,760	231,642	15,771	130,257	4,098	23,382	7,891	78,003
1940	42,741	434,257	23,315	209,089	4,021	43,827	15,405	181,341
1941	48,270	560,969	22,493	174,333	13,206	221,728	12,571	164,908
1942	51,905	727,736	24,215	224,905	14,426	282,878	13,264	219,953
1943	51,053	787,239	25,416	248,911	16,038	359,715	9,599	178,613
1944	48,826	803,729	27,912	299,290	10,511	300,851	10,403	205,588
1945	53,121	797,527	31,218	268,167	10,912	350,803	10,991	198,557
1946	66,277	1,268,027	35,076	367,802	10,995	396,123	20,206	504,102
1947	82,228	2,125,787	40,209	656,072	14,862	728,135	27,157	741,580
1948	83,894	2,288,892	43,897	824,606	13,715	606,379	26,282	857,907
1949	71,179	1,579,401	39,980	854,569	7,822	176,233	23,377	548,599
1950	73,276	1,559,097	42,462	839,564	7,432	210,529	23,382	509,004
1951	86,945	2,714,728	49,332	1,402,369	10,050	463,428	27,363	848,931
1952	70,550e	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Screenings — Mechanical								
1933	34,496	181,481	22,639	99,102	5,518	39,547	6,339	42,832
1934	54,324	318,648	33,003	183,832	5,915	33,778	15,406	101,038
1935	59,116	289,104	34,376	143,894	9,508	49,244	15,232	95,966
1936	73,944	423,103	48,691	243,958	10,254	67,846	14,999	111,299
1937	76,227	519,551	49,972	274,882	14,687	144,369	11,568	100,300
1938	58,741	479,301	36,765	308,154	8,517	41,157	13,459	129,990
1939	58,082	467,971	35,310	286,648	8,210	41,562	14,562	139,761
1940	62,725	512,784	41,847	330,264	5,623	48,929	15,255	133,591
1941	55,363	422,520	33,370	193,158	8,170	85,522	13,823	143,840
1942	48,021	407,032	27,385	187,890	8,533	90,805	12,103	128,247
1943	34,838	294,784	21,320	154,001	5,444	43,466	8,074	97,317
1944	36,846	428,558	23,595	261,550	3,756	38,765	9,495	128,443
1945	38,953	348,424	22,404	149,027	4,792	44,632	11,757	154,765
1946	68,876	863,096	34,389	326,075	9,171	162,449	25,316	374,572
1947	69,360	1,237,425	38,273	682,758	10,486	201,420	20,601	553,247
1948	69,101	1,092,077	44,838	643,648	8,968	140,764	15,295	307,665
1949	54,143	1,029,384	40,581	893,933	6,729	20,131	6,833	115,320
1950	32,573	611,620	23,529	496,267	5,809	69,708	3,235	45,645
1951	43,266	1,057,328	32,679	836,447	4,802	88,546	5,785	132,335
1952	44,435e	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Note: Tonnage "made for export" differs slightly from actual exports.

e: Canadian Pulp and Paper Association estimate.

Source: Dominion Bureau of Statistics.

n.a.: Not available.

Table 38.

Defibrated and Exploded Pulps Utilization

	Production		Made for own use		Made for export		Made for domestic sale	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
1946	48,009	\$1,019,492	48,009	\$1,019,492	—	—	—	—
1947	52,613	1,244,072	52,613	1,244,072	—	—	—	—
1948	65,636	2,544,930	65,636	2,544,930	—	—	—	—
1949	75,403	2,289,933	75,403	2,289,933	—	—	—	—
1950	88,962	2,548,544	88,962	2,548,544	—	—	—	—
1951	113,166	3,500,575	113,166	3,500,575	—	—	—	—

Note: Prior to 1946 defibrated and exploded fibres were not considered as pulps and were shown only as paper-making materials under the headings "Other wood fibre purchased" or "Other fibre and stock purchased".

Source: Dominion Bureau of Statistics.

Table 39.

Other Pulps Utilization

	Production		Made for own use		Made for export		Made for domestic sale	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
1920	27,228	\$2,144,848	7,065	\$ 526,658	11,165	\$ 964,164	8,998	\$ 654,026
1921	9,256	478,326	3,681	304,865	3,024	50,023	2,551	123,438
1922	12,326	310,292	1,107	66,450	6,255	128,240	4,964	115,602
1923	1,752	117,727	1,683	114,277	—	—	69	3,450
1924	3,051	195,417	3,051	195,417	—	—	—	—
1925	1,189	83,015	1,189	83,015	—	—	—	—
1926	5,876	339,792	5,876	339,792	—	—	—	—
1927	11,246	678,764	7,064	386,024	354	24,780	3,828	267,960
1928	18,559	1,106,868	8,121	439,268	4,349	280,976	6,089	386,624
1929	14,937	1,047,290	—	—	6,366	447,320	8,571	599,970
1930	12,804	768,240	—	—	2,910	189,150	9,894	579,090
1931	8,667	433,350	—	—	3,537	177,217	5,130	256,133
1932	7,133	356,650	—	—	4,656	232,800	2,477	123,850
1933	11,964	512,540	—	—	9,137	399,460	2,827	113,080
1934	15,097	624,872	—	—	12,135	484,347	2,962	140,525
1935	20,887	954,075	850	38,250	17,537	803,325	2,500	112,500
1936	20,238	961,305	3,457	162,676	11,182	531,145	5,599	267,484
1937	21,916	1,126,432	4,673	241,646	10,580	553,078	6,663	331,708
1938	19,183	918,904	3,699	176,361	9,364	440,964	6,120	301,579
1939	21,562	1,013,398	4,104	200,627	9,469	437,734	7,989	375,037
1940	27,698	1,646,513	4,933	290,566	11,868	731,581	10,897	624,366
1941	31,033	1,983,144	4,649	292,912	16,312	1,068,218	10,072	622,014
1942	33,731	2,155,963	5,118	322,212	18,629	1,216,607	9,984	617,144
1943	34,034	2,303,608	4,567	287,404	19,798	1,418,576	9,669	597,628
1944	31,814	2,255,364	4,558	289,401	17,526	1,363,200	9,730	602,763
1945	48,396	2,778,018	17,042	547,652	21,606	1,643,995	9,748	586,371
1946	42,150	2,852,383	12,843	593,892	19,096	1,546,812	10,211	711,679
1947	57,234	4,364,271	23,776	1,049,338	20,898	2,193,261	12,560	1,121,672
1948	89,848	6,515,005	52,201	2,101,433	24,213	2,904,153	13,434	1,509,419
1949	86,224	6,264,152	48,900	2,081,835	27,036	3,002,831	10,288	1,179,486
1950	103,039	7,286,530	60,120	2,306,622	32,871	3,813,537	10,048	1,166,371
1951	137,268	10,322,641	93,365	3,843,517	32,891	4,946,446	11,012	1,532,678

Note: Tonnage "made for export" differs slightly from actual exports.

Source: Dominion Bureau of Statistics.

Table 40.

Destination of Pulp Exports

To:	Sulphite		Sulphate	
	1952 Tons	1951 Tons	1952 Tons	1951 Tons
North America	763,660	893,868	587,735	623,726
United States	752,165	887,518	586,464	621,971
Mexico	11,495	6,350	711	1,297
Cuba	—	—	560	458
Europe	184,996	196,564	46,200	63,418
United Kingdom	131,422	132,035	38,561	38,817
France	24,500	25,915	1,762	11,781
West Germany	11,640	18,380	857	7,300
Italy	7,399	8,702	1,444	2,330
Belgium	4,271	9,587	1,819	695
Spain	3,554	—	—	27
Netherlands	1,851	1,917	26	1,264
Switzerland	136	28	1,216	1,004
Ireland	223	—	478	—
Austria	—	—	37	—
South America	13,683	13,036	5,943	10,859
Brazil	9,681	10,728	1,350	3,352
Chile	2,019	1,433	2,802	3,808
Venezuela	587	—	1,132	2,183
Colombia	1,396	875	—	—
Peru	—	—	659	1,516
Asia	31,779	52,109	1,293	9,866
Japan	29,202	51,448	957	9,866
India	2,410	661	—	—
China	167	—	336	—
Oceania	7,089	6,783	3,752	1,598
Australia	7,089	5,310	3,752	1,598
New Zealand	—	1,473	—	—
Total Exports	1,001,207	1,162,360	644,923	709,467

Source: Dominion Bureau of Statistics.

Table 41.

Average Values of U.S. Pulp Imports
From Canada & Newfoundland

Per ton	Rayon & Special Chemical Grades	Bleached Sulphite Other Than Rayon & Special Chemical	Unbleached Sulphite	Bleached Sulphate	Unbleached Sulphate	Mechanical
1937	\$ 71.82	\$ 57.21	\$ 41.47	\$ 66.83	\$ 41.10	\$19.23
1938	86.65	53.16	37.97	67.28	47.24	22.50
1939	74.82	48.42	36.40	58.87	48.84	24.26
1940	78.45	61.88	48.84	74.81	58.18	28.05
1941	82.04	67.37	55.86	80.64	57.84	28.25
1942	81.22	68.21	56.09	84.55	61.08	34.57
1943	84.47	69.69	57.89	85.72	62.94	32.28
1944	92.68	78.38	65.99	85.85	66.77	38.31
1945	93.89	79.49	67.51	85.77	69.25	40.10
1946	109.74	87.19	76.80	93.48	77.98	45.30
1947	136.49	123.41	103.06	120.65	104.58	59.76
1948	152.39	134.01	112.90	146.02	122.82	63.63
1949	149.55	116.03	98.28	123.68	99.47	57.69
1950	149.59	115.54	93.01	122.44	92.31	55.74
1951	176.89	152.79	129.97	167.50	148.42	81.06

Source: United States Pulp Producers Association.

Table 42.

Canadian Pulp in U.S. Market

The following figures cover all grades of pulp including mechanical and screenings. Over the war years imports of mechanical pulp by the United States have averaged some 17 per cent of total pulp imports.

Tons	U.S. Pulp Production	Total U.S. Imports	U.S. Imports from Canada	U.S. Exports	U.S. Net Imports
1925	3,962,217	1,663,614	880,453	37,995	1,625,619
1926	4,394,766	1,731,413	864,333	34,220	1,697,193
1927	4,313,403	1,675,768	778,999	32,006	1,643,762
1928	4,510,800	1,754,963	784,981	33,484	1,721,479
1929	4,862,885	1,880,728	796,945	54,067	1,826,661
1930	4,630,308	1,830,217	735,864	48,426	1,781,791
1931	4,409,344	1,596,421	550,127	53,308	1,543,113
1932	3,760,267	1,481,760	425,326	47,860	1,433,900
1933	4,276,204	1,941,576	550,871	79,193	1,862,383
1934	4,436,128	1,805,972	541,728	142,932	1,663,040
1935	4,925,669	1,933,249	541,078	171,853	1,761,396
1936	5,695,219	2,277,500	670,962	193,485	2,084,015
1937	6,572,918	2,394,605	712,238	322,544	2,072,061
1938	5,933,560	1,710,393	467,323	140,484	1,569,909
1939	6,993,334	2,026,441	637,953	139,504	1,886,937
1940	8,959,559	1,224,570	828,307	480,938	743,632
1941	10,375,422	1,157,886	1,130,624	328,608	829,278
1942	10,783,430	1,236,519	1,210,960	378,148	858,371
1943	9,680,462	1,305,549	1,279,886	300,700	1,004,849
1944	10,108,443	1,071,864	1,071,814	218,401	853,463
1945	10,167,200	1,754,065	1,079,014	135,362	1,618,703
1946	10,606,527	1,805,488	1,244,215	39,361	1,766,127
1947	11,945,864	2,322,460	1,520,913	130,096	2,192,364
1948	12,872,292	2,176,111	1,593,584	93,727	2,082,384
1949	12,207,279	1,765,102	1,313,884a	122,133	1,640,969
1950	14,848,951	2,385,181	1,717,035a	95,673	2,289,508
1951	16,519,879	2,360,706	1,876,505a	201,908	2,158,798
1952	16,462,333	1,936,652	1,577,514	198,685	1,737,967

a: Includes Newfoundland.

n.a.: Not available

Source: United States Pulp Producers Association.

Table 43.

World Pulp Figures — 1951*

In 000's of short tons			
Canada (incl. Newfoundland)	Production	Imports	Exports
United States	9,219	36	2,243
	16,520	2,361	202
	25,739	2,397	2,445
Finland	2,417	—	1,311
Norway	1,281	16	623
Sweden	3,708	—	2,217
	7,406	16	4,151
Western & Central Europe (a)	2,982	3,702	219
Other countries (b)	1,337	352	0
Total, above countries	37,464	6,467	6,815

(a) Includes Belgium, Denmark, France, Great Britain, Netherlands, Portugal, Austria, Western Germany, Italy, Switzerland, and Turkey.

(b) Includes Australia, Brazil, Chile, India, Japan, and New Zealand.

* Above table includes data from major pulp producing and consuming countries for which reliable and current data are available.

Source: United States Pulp Producers Association.

Table 44.

Exports of Unbleached Sulphite Pulp from Newfoundland

Year†	TOTAL Quantity Tons	Value \$	UNITED KINGDOM Quantity Tons	Value \$	UNITED STATES Quantity Tons	Value \$	CANADA Quantity Tons	Value \$	OTHER COUNTRIES Quantity Tons	Value \$
1910	n.a.	7,140	n.a.	7,140	—	—	—	—	—	—
1911	—	—	—	—	—	—	—	—	—	—
1912	n.a.	200	n.a.	200	—	—	—	—	—	—
1913	—	—	—	—	—	—	—	—	—	—
1914	n.a.	1,000	n.a.	1,000	—	—	—	—	—	—
1915	—	—	—	—	—	—	—	—	—	—
1916	n.a.	74,284	n.a.	74,284	—	—	—	—	—	—
1917	n.a.	286,693	n.a.	266,362	n.a.	20,331	—	—	—	—
1918	2,659	293,091	2,472	276,854	187	16,237	—	—	—	—
1919	4,023	431,913	1,630	183,691	783	88,610	—	—	1,600	159,412
1920	2,324	205,151	2,112	190,895	212	14,256	—	—	—	—
1921	—	—	—	—	—	—	—	—	—	—
1922	—	—	—	—	—	—	—	—	—	—
1923	—	—	—	—	—	—	—	—	—	—
1924	—	—	—	—	—	—	—	—	—	—
1925	—	—	—	—	—	—	—	—	—	—
1926	—	—	—	—	—	—	—	—	—	—
1927	—	—	—	—	—	—	—	—	—	—
1928	—	—	—	—	—	—	—	—	—	—
1929	—	—	—	—	—	—	—	—	—	—
1930	—	—	—	—	—	—	—	—	—	—
1931	—	—	—	—	—	—	—	—	—	—
1932	—	—	—	—	—	—	—	—	—	—
1933	—	—	—	—	—	—	—	—	—	—
1934	—	—	—	—	—	—	—	—	—	—
1935	—	—	—	—	—	—	—	—	—	—
1936	—	—	—	—	—	—	—	—	—	—
1937	—	—	—	—	—	—	—	—	—	—
1938	4,334	182,618	4,334	182,618	—	—	—	—	—	—
1939	—	—	—	—	—	—	—	—	—	—
1940	11,111	512,949	11,111	512,949	—	—	—	—	—	—
1941	28,932	1,676,921	23,651	1,401,195	5,281	275,726	—	—	—	—
1942	57,849	3,284,247	23,724	1,461,085	32,709	1,733,893	—	—	1,416	89,269
1943	30,827	1,742,820	12,711	765,260	16,903	915,652	1,213	61,908	—	—
1944	36,541	2,088,100	19,546	1,176,842	16,995	911,258	—	—	—	—
1945	27,559	1,661,620	25,820	1,552,136	1,739	109,483	—	1	—	—
1945*	33,753	2,299,055	27,092	1,901,983	2,969	182,883	3,414	191,181	278	23,008
1946	15,177	1,231,586	14,382	1,190,151	795	41,435	—	—	—	—
1947	39,755	2,753,059	34,617	2,436,270	5,138	316,789	—	—	—	—
1948	42,139	3,224,896	36,091	2,866,043	6,048	358,853	—	—	—	—

† 1910-1942, fiscal years ending June 30; 1943, 9 months ending March 31; 1944-45, fiscal year ending March 31; 1945*, 9 months ending December 31; 1946-1948, calendar years.

n.a.: Not available.

This table is included for reference purposes only. Since Confederation with Canada in 1949, Newfoundland figures have been incorporated into the Canadian totals.

Source: Newfoundland Customs Returns.

Table 45.

Exports of Mechanical Pulp from Newfoundland

Year†	TOTAL		UNITED KINGDOM		UNITED STATES		CANADA		OTHER COUNTRIES	
	Quantity Tons	Value \$	Quantity Tons	Value \$	Quantity Tons	Value \$	Quantity Tons	Value \$	Quantity Tons	Value \$
1910	6,853	69,164	6,698	67,611	155	1,553	—	—	—	—
1911	27,177	251,048	21,355	196,787	5,822	54,261	—	—	—	—
1912	42,102	361,149	35,619	316,257	6,483	44,892	—	—	—	—
1913	51,487	436,352	40,367	314,568	11,120	121,784	—	—	—	—
1914	51,605	372,676	51,605	372,676	—	—	—	—	—	—
1915	48,451	379,220	46,969	364,400	1,482	14,820	—	—	—	—
1916	22,892	197,608	—	—	22,892	197,608	—	—	—	—
1917	27,413	351,072	16,604	167,568	10,809	183,504	—	—	—	—
1918	11,494	111,358	—	—	11,494	111,358	—	—	—	—
1919	3,128	43,265	1,940	34,920	691	4,715	—	—	497	3,630
1920	17,540	129,125	15,559	119,450	1,981	9,675	—	—	—	—
1921	26,838	246,009	24,521	211,856	2,317	34,153	—	—	—	—
1922	19,932	364,514	19,932	364,514	—	—	—	—	—	—
1923	21,680	364,289	21,680	364,289	—	—	—	—	—	—
1924	31,674	531,833	24,405	408,873	2,000	33,841	5,269	89,119	—	—
1925	12,711	215,896	12,265	208,343	446	7,553	—	—	—	—
1926	11,147	175,325	8,505	134,633	2,642	40,692	—	—	—	—
1927	3,689	56,801	—	—	3,689	56,801	—	—	—	—
1928	22	143	22	143	—	—	—	—	—	—
1929	65	956	—	—	65	956	—	—	—	—
1930	—	6	—	—	—	—	—	6	—	—
1931	—	—	—	—	—	—	—	—	—	—
1932	—	—	—	—	—	—	—	—	—	—
1933	—	—	—	—	—	—	—	—	—	—
1934	—	—	—	—	—	—	—	—	—	—
1935	—	—	—	—	—	—	—	—	—	—
1936	—	—	—	—	—	—	—	—	—	—
1937	—	—	—	—	—	—	—	—	—	—
1938	—	—	—	—	—	—	—	—	—	—
1939	—	—	—	—	—	—	—	—	—	—
1940	98	3,463	98	3,463	—	—	—	—	—	—
1941	8,685	252,557	7,920	234,715	765	17,842	—	—	—	—
1942	22,779	790,137	11,777	395,780	9,783	334,548	—	—	1,219	59,809
1943	24,825	870,777	19,356	672,342	5,469	198,435	—	—	—	—
1944	35,517	1,463,790	32,733	1,376,396	2,784	87,394	—	—	—	—
1945	38,250	1,814,895	36,238	1,684,157	1,922	126,988	90	3,750	—	—
1945*	12,389	744,931	11,862	721,631	527	23,300	—	—	—	—
1946	246	14,986	—	—	—	—	246	14,986	—	—
1947	404	24,900	404	24,900	—	—	—	—	—	—
1948	2,435	154,637	374	23,016	828	58,228	1,233	73,393	—	—

† 1910-1942, fiscal years ending June 30; 1943, 9 months ending March 31; 1944-45, fiscal year ending March 31; 1945*, 9 months ending December 31; 1946-1948, calendar years.

This table is included for reference purposes only. Since Confederation with Canada in 1949, Newfoundland figures have been incorporated into the Canadian totals.

Source: Newfoundland Customs Returns.

"D" — NEWSPRINT

*Data in this section have been compiled by
Newsprint Association of Canada from the sources mentioned.*

Table 46.

Newsprint Capacity and Production

All figures include Newfoundland.			
Tons	Capacity	Operating Ratio	Production
1913 . . . . .	.....	...	402,000
1914 . . . . .	.....	...	470,000
1915 . . . . .	.....	...	549,000
1916 . . . . .	.....	...	662,000
1917 . . . . .	.....	...	722,000
1918	837,000	92.0	770,000
1919	905,000	93.8	849,000
1920	1,016,000	92.3	938,000
1921	1,151,000	74.0	852,000
1922	1,277,000	89.5	1,143,244
1923	1,465,000	90.8	1,330,138
1924	1,638,000	86.5	1,417,642
1925	1,823,000	88.8	1,618,805
1926	2,121,000	97.5	2,068,208
1927	2,716,000	84.3	2,289,801
1928	3,262,000	80.1	2,611,847
1929	3,512,000	85.0	2,984,327
1930	3,902,000	71.5	2,791,406
1931	4,127,000	61.0	2,516,437
1932	4,142,000	52.8	2,186,120
1933	4,149,000	55.0	2,282,066
1934	4,182,000	69.6	2,911,355
1935	4,263,120	72.3	3,082,994
1936	4,217,860	83.8	3,535,465
1937	4,210,743	94.9	3,997,942
1938	4,534,884	63.8	2,892,984
1939	4,632,936	68.5	3,174,544
1940	4,716,030	79.9	3,769,946
1941	4,702,671	80.2	3,770,665
1942	4,763,235	72.5	3,454,528
1943	4,677,951	68.8	3,219,004
1944	4,726,464	69.1	3,264,581
1945	4,672,080	76.9	3,591,901
1946	4,640,944	97.1	4,506,063
1947	4,728,724	101.9	4,820,164
1948	4,883,127	102.0	4,982,834
1949	5,113,108	101.2	5,176,327
1950	5,226,675	101.0	5,278,585
1951	5,359,816	102.9	5,516,279
1952	5,510,397	103.2	5,687,051

Figures for 1913-17 cover fiscal years.

Sources: Newsprint Association of Canada and Newsprint Service Bureau.

Table 48.

Newsprint Capacity and Production

All figures include Newfoundland.			
Tons	Number of Work Days	Capacity Per Day	Production Per Day
1935	310	13,752	9,945
1936	310	13,606	11,405
1937	309	13,627	12,938
1938	309	14,676	9,362
1939	308	15,042	10,307
1940	310	15,213	12,161
1941	309	15,219	12,203
1942	309	15,415	11,180
1943	309	15,139	10,417
1944	309	15,296	10,565
1945	309	15,120	11,624
1946	308	15,068	14,630
1947	308	15,353	15,650
1948	309	15,803	16,126
1949	308	16,601	16,806
1950	307	17,025	17,194
1951	308	17,402	17,910
1952	309	17,833	18,405

Because of variations in the number of workdays in a year or a month, daily capacity provides the most accurate measurement of changes in capacity.

Source: Newsprint Association of Canada.

Table 47.

Newsprint Shipments and Mill Stocks

Shipments to:					
Tons	Canada & Newfoundland	U.S.A.	Overseas	Total	Mill Stocks
1913 . . . . .	.....	218,000	92,000	.....	.....
1914 . . . . .	.....	275,000	104,000	.....	.....
1915 . . . . .	.....	329,000	95,000	.....	.....
1916 . . . . .	.....	458,000	125,000	.....	.....
1917 . . . . .	.....	491,000	79,000	.....	.....
1918 . . . . .	.....	602,000	65,000	.....	.....
1919 . . . . .	.....	628,000	115,000	.....	.....
1920	110,000	679,306	160,000	949,306	67,999
1921	95,000	656,660	96,000	847,660	72,339
1922	129,000	896,311	136,000	1,161,311	54,272
1923	120,000	1,108,466	85,000	1,313,466	70,944
1924	127,000	1,200,803	88,000	1,415,803	72,783
1925	124,000	1,315,404	148,000	1,587,404	104,184
1926	147,000	1,750,749	182,000	2,079,749	92,643
1927	181,000	1,865,003	234,000	2,280,003	102,441
1928	193,000	2,040,920	370,000	2,603,920	110,368
1929	208,000	2,326,502	442,000	2,976,502	118,193
1930	162,000	2,145,471	442,000	2,749,471	160,128
1931	195,000	1,915,838	377,000	2,487,838	188,727
1932	146,000	1,647,216	386,000	2,179,216	195,631
1933	148,640	1,715,331	459,447	2,323,418	154,279
1934	173,755	2,113,767	625,877	2,913,399	152,235
1935	200,303	2,122,099	727,338	3,049,740	185,489
1936	194,808	2,550,925	845,778	3,591,511	129,443
1937	220,200	3,044,731	766,953	4,031,884	95,521
1938	159,792	1,940,303	680,229	2,780,324	208,181
1939	190,102	2,281,460	653,151	3,124,713	258,012
1940	184,605	2,741,363	877,851	3,803,819	224,139
1941	197,508	2,987,235	616,890	3,801,633	193,171
1942	203,484	3,006,592	778,791	3,488,867	158,832
1943	193,848	2,680,790	398,640	3,273,278	104,558
1944	188,261	2,529,693	553,457	3,271,411	97,728
1945	201,492	2,665,947	685,469	3,552,908	136,721
1946	248,366	3,563,124	684,770	4,496,260	146,524
1947	275,144	3,897,300	700,839	4,873,283	93,405
1948	306,485	4,127,970	532,589	4,967,044	109,195
1949	335,385	4,380,250	448,697	5,164,332	121,190
1950	354,602	4,748,228	207,803	5,310,633	89,142
1951	359,895	4,783,549	360,067	5,503,511	101,910
1952	368,768	4,835,065	462,616	5,666,449	122,512

Figures for 1913-17 cover fiscal years.

Sources: Newsprint Association of Canada and Newsprint Service Bureau.

Table 49.

Newsprint Overseas Shipments

Including Shipments from Newfoundland.					
Tons	British Isles	Australia & N.Z.	South America	Central America	All Others
1935	330,331	143,106	95,907	21,707	136,287
1936	347,516	252,502	104,439	35,016	126,305
1937	408,043	125,222	101,468	42,508	89,692
1938	384,149	213,400	35,245	15,351	32,084
1939	354,211	171,839	54,501	29,757	42,843
1940	335,586	196,028	172,153	56,454	117,630
1941	150,863	91,441	208,144	60,735	105,707
1942	69,659	10,780	99,336	64,355	34,661
1943	127,856	52,202	133,188	47,308	38,086
1944	149,934	111,543	140,686	75,883	75,411
1945	223,044	116,211	146,700	78,957	120,557
1946	119,631	195,067	158,373	96,576	115,123
1947	131,203	212,444	131,658	102,382	123,152
1948	123,310	78,196	95,213	112,198	123,672
1949	126,484	74,000	33,417	106,352	108,464
1950	28,056	33,030	16,469	88,454	41,794
1951	103,462	37,671	15,463	116,306	87,165
1952	135,749	76,266	29,020	134,008	87,573

Source: Newsprint Association of Canada.

Table 50.
Value of Newsprint Production and Exports

	Production	Exports
	\$ a	\$
1915		16,438,679
1916		21,098,997
1917	38,868,084	32,561,020
1918	46,230,814	37,301,269
1919	54,427,879	49,811,562
1920	80,865,271	72,920,225
1921	78,784,598	69,786,317
1922	75,971,327	68,362,817
1923	93,213,340	85,611,258
1924	100,276,903	90,990,711
1925	106,268,641	98,945,337
1926	121,064,946	114,090,595
1927	132,286,729	123,222,094
1928	144,146,632	141,103,527
1929	150,800,157	148,865,648
1930	136,181,883	133,370,932
1931	111,419,637	107,233,112
1932	85,539,852	82,966,199
1933	66,959,501	69,200,515
1934	86,811,460	82,503,659
1935	88,436,465	87,924,251
1936	105,214,533	103,639,634
1937	126,424,303	126,466,412
1938	107,051,202	104,615,042
1939	120,858,583	115,687,288
1940	158,447,311	151,360,196
1941	158,925,310	154,356,543
1942	147,074,109	141,065,618
1943	152,962,868	144,707,065
1944	165,655,165	157,190,834
1945	189,023,756	179,450,771
1946	280,809,610	265,864,969
1947	355,540,669	342,293,158
1948	402,099,718	383,122,743
1949	467,976,343	440,054,067
1950	506,968,207	485,746,314
1951	564,361,193	536,372,498
1952	a	591,790,209

a: Not available.

Figures for 1915-1948 do not include Newfoundland.

Source: Dominion Bureau of Statistics.

Table 51. U.S. Newsprint Production

Tons	Capacity	Production	Shipments to:	Total
			U.S.A.	Shipments
1913		1,305,000		
1914		1,313,000		
1915		1,239,000		
1916		1,315,000		
1917		1,359,000		
1918	1,450,000	1,260,000		
1919	1,388,000	1,375,000		
1920	1,548,000	1,511,968		1,502,574
1921	1,668,000	1,225,235		1,226,064
1922	1,639,000	1,447,688		1,452,414
1923	1,578,000	1,485,000		1,477,332
1924	1,632,000	1,481,424		1,480,819
1925	1,721,000	1,530,318	1,521,560	1,534,345
1926	1,763,000	1,684,218	1,679,952	1,684,790
1927	1,788,000	1,485,495	1,471,950	1,474,521
1928	1,735,000	1,417,572	1,397,082	1,399,425
1929	1,741,000	1,392,276	1,406,469	1,409,239
1930	1,687,000	1,282,372	1,262,721	1,268,065
1931	1,768,000	1,157,436	1,156,610	1,157,827
1932	1,771,000	1,008,588	1,008,982	1,009,963
1933	1,735,000	946,374	949,730	950,171
1934	1,714,000	961,403	962,318	966,515
1935	1,504,000	912,392	910,895	917,236
1936	1,471,000	921,408	911,488	916,676
1937	1,464,000	945,721	940,089	944,629
1938	1,094,000	820,055	816,295	816,577
1939	972,000	939,442	942,240	945,073
1940	1,081,000	1,013,437	998,378	1,012,934
1941	1,085,000	1,014,912	995,448	1,020,781
1942	1,126,000	952,616	932,931	950,601
1943	1,033,000	804,853	788,932	803,462
1944	1,033,000	719,802	708,815	723,437
1945	981,000	724,448	707,433	725,465
1946	839,000	770,890	753,631	762,012
1947	845,000	825,554	824,020	832,471
1948	850,000	867,494	857,540	866,849
1949	876,000	899,528	883,657	897,660
1950	992,000	1,014,703	1,002,125	1,017,276
1951	1,050,000	1,124,748	1,107,552	1,125,421
1952	1,165,000	1,146,864	1,075,540	1,142,706

These figures are compiled from U.S. mill reports and shipments to overseas show only exports direct from mills. They do not include tonnage delivered to U.S. buyers and subsequently resold for exports, such tonnage being included in shipments to U.S.A. Exports as reported by U.S. Department of Commerce are thus higher than mill reports; in 1951, the Department showed exports of 71,345 tons versus 17,869 tons reported by the mills.

Source: Newsprint Service Bureau.

Table 52. Newfoundland Newsprint Production

Tons	Capacity	Production	Shipments to:	Total
			U.S.A.	Shipments
1913	77,200	52,000		52,890
1914	77,200	55,000		55,558
1915	77,200	60,000		42,429
1916	77,200	54,000		71,984
1917	77,200	36,000		18,344
1918	77,200	35,000	24,982	4,526
1919	77,200	46,000	14,995	29,271
1920	77,200	62,000	3,548	67,747
1921	77,200	44,000	219	42,260
1922	77,200	61,328	0	63,727
1923	77,200	63,906	0	61,898
1924	77,200	64,648	4,324	60,435
1925	108,000	96,588	24,447	66,850
1926	190,000	186,471	115,734	77,930
1927	241,000	202,852	87,706	100,779
1928	268,500	230,745	138,586	97,867
1929	287,450	255,500	156,705	100,409
1930	301,900	287,259	164,532	117,271
1931	301,943	294,983	170,252	121,707
1932	301,943	271,804	138,335	128,750
1933	301,943	270,001	130,155	166,568
1934	321,317	314,057	119,969	196,754
1935	348,952	332,144	113,503	200,764
1936	348,952	326,449	116,340	226,649
1937	327,590	350,142	135,371	241,177
1938	330,680	268,404	59,283	204,450
1939	339,680	305,278	87,334	175,557
1940	348,223	351,143	146,911	220,263
1941	361,860	344,800	217,233	128,993
1942	363,405	277,426	195,753	83,479
1943	363,405	236,207	131,031	131,833
1944	368,040	272,799	100,035	169,754
1945	371,130	332,693	121,831	194,415
1946	375,765	362,671	208,480	150,513
1947	393,125	373,375	212,160	169,464
1948	405,408	382,248	246,537	128,237
1949	461,076	444,196	324,680	101,176
1950 - 1952				

(Included in Canadian Totals as noted below)

This table is included for reference purposes only. Since Confederation with Canada in 1949, Newfoundland figures have been incorporated into the Canadian totals.

Sources: Newsprint Association of Canada and Newsprint Service Bureau.

Table 53.

Principal Newspaper Producers Overseas

FINLAND			NORWAY		SWEDEN		SCANDINAVIA		BRITAIN		
Tons	Production	Exports	Production	Exports	Production	Exports	Production	Exports	Tons	Production	Exports
1929 . .	219,198	200,100	203,976	186,065	281,781	218,621	704,955	604,786	1929	637,000	107,672
1930 . .	228,577	206,130	202,510	186,851	244,972	188,803	676,059	581,784	1930	607,992	88,878
1931 . .	232,984	209,324	108,412	95,111	268,737	199,574	610,133	504,009	1931	719,040	66,340
1932 . .	223,784	211,550	199,268	174,047	261,209	202,908	684,261	588,505	1932	789,992	94,028
1933 . .	263,895	243,925	166,820	148,694	270,125	201,329	700,840	595,948	1933	830,032	88,882
1934 . .	294,739	279,171	154,410	135,531	277,861	207,365	727,010	622,067	1934	940,016	66,406
1935 . .	320,923	295,973	192,485	170,162	301,756	229,689	815,164	695,824	1935	970,032	78,884
1936 . .	402,016	364,964	188,131	174,668	288,615	197,483	878,762	737,115	1936	1,003,968	86,423
1937 . .	448,829	418,745	225,832	198,886	309,965	221,103	984,626	838,734	1937	1,032,976	63,497
1938 . .	458,493	390,374	199,513	166,637	288,615	176,304	946,621	733,315	1938	953,999	63,036
1939 . .	550,363	432,589	221,562	188,330	306,127	199,210	1,078,052	820,129	1939	848,002	41,731
1940 . .	94,554	62,346	68,207	46,250	139,746	51,389	302,507	159,985	1940	332,640	7,939
1941 . .	63,728	54,113	42,193	24,622	108,415	11,912	214,336	90,647	1941	330,176	248
1942 . .	89,109	67,154	37,082	21,522	187,523	76,956	313,714	165,632	1942	156,464	78
1943 . .	128,155	109,500	35,300	24,047	187,374	64,382	350,829	197,929	1943	144,892	296
1944 . .	93,216	50,800	28,757	13,589	216,031	77,654	338,004	142,043	1944	169,179	688
1945 . .	122,735	100,735	59,874	41,083	228,725	85,619	411,334	227,437	1945	181,037	3,702
1946 . .	263,072	206,225	121,680	96,175	289,070	138,039	673,822	470,439	1946	330,176	17,208
1947 . .	297,065	273,365	125,302	100,070	298,621	167,041	720,988	540,476	1947	282,240	3,233
1948 . .	356,058	317,971	157,248	128,373	327,332	195,949	840,638	642,293	1948	335,630	22,213
1949 . .	423,413	391,148	171,259	158,230	344,867	233,057	939,539	782,435	1949	529,135	67,758
1950 . .	459,826	416,207	175,235	147,546	357,904	225,998	992,965	789,751	1950	609,280	114,271
1951 . .	453,758	415,088	179,679	144,901	365,496	221,560	998,933	781,549	1951	590,100	106,685
1952 . .	479,981	434,272	167,264	137,841	364,620	239,647	1,011,865	811,760	1952	601,290	82,494

Sources: Ticon; Scannews. Scandinavia covers total of Finland, Norway and Sweden.

Source: British Board of Trade.

Table 54.

Sources of U.S. Newspaper Supply

Tons	From: Canada & Newfoundland	U.S.A.	Europe	Total
1913	218,000	1,255,000	....	1,473,000
1914	275,000	1,269,000	3,000	1,547,000
1915	329,000	1,176,000	4,000	1,509,000
1916	438,000	1,251,000	1,000	1,690,000
1917	491,000	1,287,000	1,000	1,779,000
1918	602,000	1,150,000	0	1,752,000
1919	628,000	1,264,000	0	1,892,000
1920	679,306	1,465,739	50,561	2,195,606
1921	656,660	1,208,390	135,320	2,000,370
1922	896,311	1,421,924	132,957	2,451,192
1923	1,108,466	1,468,643	200,377	2,777,486
1924	1,200,803	1,464,265	156,430	2,821,498
1925	1,315,404	1,507,580	133,021	2,956,005
1926	1,750,749	1,664,960	99,926	3,515,635
1927	1,865,003	1,473,166	122,062	3,460,231
1928	2,040,920	1,406,182	116,246	3,563,348
1929	2,326,502	1,373,581	96,198	3,796,281
1930	2,145,471	1,272,168	134,180	3,551,819
1931	1,915,838	1,147,783	151,068	3,214,689
1932	1,647,216	1,000,124	144,921	2,792,261
1933	1,715,331	949,730	153,203	2,818,264
1934	2,113,767	962,318	147,060	3,223,145
1935	2,122,099	910,895	197,085	3,230,079
1936	2,550,925	911,488	242,352	3,704,765
1937	3,044,731	940,089	293,953	4,278,773
1938	1,940,303	816,295	243,065	2,999,663
1939	2,281,460	942,240	310,216	3,533,916
1940	2,741,363	998,378	33,850	3,773,591
1941	2,987,235	995,448	2,865	3,985,548
1942	3,006,592	932,931	1,527	3,941,050
1943	2,680,790	788,932	0	3,469,722
1944	2,529,693	708,815	0	3,238,508
1945	2,665,947	707,433	0	3,373,380
1946	3,563,124	753,631	13,480	4,330,235
1947	3,897,300	824,020	128,936	4,850,256
1948	4,127,970	857,540	267,434	5,252,944
1949	4,380,250	883,657	254,749	5,518,656
1950	4,748,228	1,002,125	171,033	5,921,386
1951	4,783,549	1,107,552	206,319	6,097,420
1952	4,835,065	1,075,450	182,708	6,093,313

Sources: Figures for 1913-32 are compiled from U.S. Dept. of Commerce reports of shipments taken; those for 1933 to date from NAC reports of mill shipments. The two are not strictly comparable due to the time lag between shipments and arrivals.

Table 55.

U.S. Newspaper Consumption and Stocks

ANPA	† Percent	Consumption Total	Per Capita	Consumers' Stocks* ANPA	Stocks* Total
1913 . . . . .	....	1,473,000	30.3	....	....
1914 . . . . .	....	1,547,000	31.2	....	....
1915 . . . . .	....	1,509,000	30.0	....	....
1916 . . . . .	....	1,690,000	33.2	....	....
1917 . . . . .	....	1,779,000	34.4	....	....
1918 . . . . .	....	1,752,000	33.5	....	....
1919 . . . . .	....	1,892,000	36.0	....	....
1920 . . . . .	....	2,197,000	41.3	....	....
1921	1,818,617	89.0	2,043,390	37.7	196,741
1922	2,048,852	84.0	2,439,110	44.3	211,325
1923	1,819,141	65.5	2,777,315	49.6	209,996
1924	1,679,620	59.0	2,846,814	49.9	199,979
1925	1,808,229	60.0	3,013,715	52.0	163,614
1926	2,028,779	59.5	3,409,713	58.1	228,832
1927	2,707,045	79.0	3,426,639	57.6	264,885
1928	2,761,475	77.0	3,586,331	59.5	247,552
1929	2,949,878	78.5	3,757,806	61.7	278,348
1930	2,735,428	76.0	3,599,247	58.5	256,472
1931	2,625,869	81.0	3,241,814	52.3	236,153
1932	2,265,741	80.0	2,832,176	45.4	196,443
1933	2,154,106	80.0	2,692,632	42.9	237,403
1934	2,485,824	80.0	3,107,280	49.2	323,453
1935	2,675,744	80.0	3,344,680	52.6	294,494
1936	2,953,557	80.0	3,691,946	57.7	305,385
1937	3,059,795	80.0	3,824,743	59.4	613,514
1938	2,737,815	80.0	3,422,269	52.7	315,027
1939	2,730,217	77.5	3,520,372	53.8	328,424
1940	2,855,952	76.5	3,731,331	56.5	356,472
1941	2,946,660	75.0	3,929,773	58.9	385,296
1942	2,834,940	74.3	3,815,532	56.6	479,349
1943	2,720,257	75.0	3,627,009	53.1	366,702
1944	2,351,096	72.5	3,242,891	46.9	342,280
1945	2,455,116	70.5	3,481,302	49.8	266,344
1946	3,136,276	73.0	4,296,268	60.8	292,806
1947	3,564,678	75.0	4,752,904	66.0	377,033
1948	4,009,829	78.0	5,140,806	70.1	458,145
1949	4,257,489	77.0	5,529,206	74.1	445,863
1950	4,541,760	76.5	5,936,941	78.3	424,960
1951	4,511,023	75.5	5,974,865	77.4	522,196
1952	4,551,238	76.0	5,988,471	76.3	611,909

* End of Each Year.

† U.S. total consumption is based on consumption reported by the ANPA group. For each year the percentage of total U.S. supply taken by this group is assumed to represent the percentage of total consumption consumed by the group. Total consumption is obtained by extending ANPA consumption by this percentage. Total consumers' stocks are computed each month by taking stock at the beginning of the month plus supplies received in the month less total consumption in that month.

Source: Newspaper Association of Canada.

Table 56.
Consumption by Larger Newspapers

	Tons	
CANADA	1951	1952
Hamilton Spectator	8,000	8,000
London Free Press	7,700	7,300
Montreal Star & Herald	17,400	19,400
Ottawa Journal	5,300	5,000
Toronto Daily Star & Star Weekly	65,000	70,000
Toronto Globe & Mail	18,000	18,900
Toronto Evening Telegram	20,300	20,000
Vancouver Province	10,000	10,000
Winnipeg Free Press	12,900	13,500
UNITED STATES		
Boston Post	28,000	25,000
Buffalo News	32,300	33,000
Chicago News	50,446	47,000
Chicago Sun-Times	62,000	60,000
Chicago Tribune	205,000	203,000
Cleveland Plain Dealer	50,000	66,000
Des Moines Register & Tribune	37,000	37,000
Detroit Free Press	47,000	40,000
Detroit News	74,000	73,500
Houston Chronicle	29,000	29,000
Los Angeles Times	109,500	125,000
Louisville Courier-Journal & Times	41,349	43,979
Miami Herald	33,000	35,000
Milwaukee Journal	66,000	70,000
New York News	286,500	—
Toledo Blade & Times	27,000	29,350
Wall Street Journal	4,400	4,400
Washington Star	39,700	38,000

Source: Editor & Publisher Annual Mechanical Tabulation.

Table 58.
U.S. Newspaper Circulation

Million copies; as at Sept. 30 of each year				
Year	Morning	Evening	Total Daily	Sunday
1920	...	...	27.8	17.1
1921	...	...	28.4	19.0
1922	...	...	29.6	19.7
1923	...	...	31.4	21.5
1924	...	...	33.0	22.2
1925	...	...	33.7	23.4
1926	...	...	36.0	24.4
1927	...	...	38.0	25.5
1928	...	...	38.0	25.8
1929	...	...	39.4	26.9
1930	...	...	39.6	26.4
1931	...	...	38.8	25.7
1932	13.7	22.7	36.4	24.9
1933	13.2	22.0	35.2	24.0
1934	13.9	22.8	36.7	26.5
1935	14.4	23.7	38.2	28.1
1936	15.3	25.0	40.3	30.0
1937	15.9	25.5	41.4	31.0
1938	15.1	24.5	39.6	30.5
1939	15.5	24.2	39.7	31.5
1940	16.1	25.0	41.1	32.4
1941	16.5	25.6	42.1	33.4
1942	17.1	26.3	43.4	35.3
1943	17.1	27.3	44.4	37.3
1944	18.1	27.9	46.0	37.9
1945	19.2	29.1	48.4	39.9
1946	20.5	30.4	50.9	43.7
1947	20.8	30.9	51.7	45.1
1948	21.1	31.2	52.3	46.3
1949	21.0	31.8	52.8	46.4
1950	21.3	32.5	53.8	46.6
1951	21.2	32.8	54.0	46.3
1952	21.2	32.8	54.0	46.2

Source: Editor & Publisher International Year Book.

Table 57.
North American Newsprint Stocks*

Tons	Manufacturers		Consumers	TOTAL
	Canada & Newfoundland	United States	United States	
1921	72,339	23,934	269,025	365,298
1922	54,272	19,208	281,107	354,587
1923	70,944	23,669	281,278	375,891
1924	72,783	23,757	255,962	352,502
1925	104,184	16,238	198,252	318,674
1926	92,643	12,030	304,174	408,847
1927	102,441	20,877	337,766	461,084
1928	110,368	34,469	314,783	459,620
1929	118,193	19,023	353,258	490,474
1930	160,128	32,061	305,830	498,019
1931	188,727	32,709	278,705	500,141
1932	195,631	21,783	238,790	456,204
1933	154,279	19,237	364,422	537,938
1934	152,235	14,125	480,287	646,647
1935	185,489	9,281	365,686	560,456
1936	129,443	14,013	378,505	521,961
1937	95,521	15,105	832,535	943,161
1938	208,181	18,583	409,929	636,693
1939	258,012	12,952	423,473	694,437
1940	224,139	13,455	465,733	703,327
1941	193,171	7,586	521,508	722,265
1942	158,832	9,601	645,492	813,925
1943	104,558	10,992	488,205	603,755
1944	97,728	7,357	483,822	588,907
1945	136,721	6,340	375,900	518,961
1946	146,524	15,218	409,867	571,609
1947	93,405	8,301	507,219	608,925
1948	109,195	8,946	619,357	737,498
1949	121,190	10,814	608,807	740,811
1950	89,142	8,241	593,252	690,635
1951	101,910	7,568	715,807	825,285
1952	122,512	11,726	820,649	954,887

* End of each year.

Sources: Newsprint Association of Canada and Newsprint Service Bureau.

Table 59.
U.S. Newspaper Milline Rates

Rate per agate line of advertising per million of circulation as at December 31st of each year				
Year	Morning	Evening	Sunday	
1923	2.70	3.33	2.27	
1924	2.71	3.32	2.29	
1925	2.66	3.39	2.32	
1926	2.57	3.35	2.33	
1927	2.52	3.29	2.29	
1928	2.52	3.40	2.30	
1929	2.55	3.38	2.33	
1930	2.52	3.45	2.36	
1931	2.57	3.54	2.39	
1932	2.57	3.72	2.46	
1933	2.66	3.87	2.51	
1934	2.58	3.75	2.26	
1935	2.58	3.71	2.12	
1936	2.58	3.72	2.16	
1937	2.50	3.65	2.15	
1938	2.57	3.73	2.13	
1939	2.45	3.72	2.15	
1940	2.37	3.59	2.11	
1941	2.31	3.55	2.07	
1942	2.23	3.48	1.99	
1943	2.25	3.45	1.89	
1944	2.29	3.16	2.01	
1945	2.24	3.24	2.02	
1946	2.28	3.38	2.02	
1947	2.39	3.39	2.13	
1948	2.49	3.68	2.22	
1949	2.56	3.66	2.27	
1950	2.65	3.83	2.41	
1951	2.80	4.06	2.54	
1952	2.97	4.23	2.68	

Source: Editor & Publisher International Year Book.

Table 60.

Indexes of U.S. Advertising

Monthly average, 1935-9=100					
Year	Magazines	Newspapers	Radio	Outdoor	*Combined
1935	81	95	69	78	83
1936	95	107	89	96	99
1937	114	108	107	110	110
1938	101	94	112	107	101
1939	108	96	123	109	107
1940	119	102	144	112	118
1941	128	103	162	124	127
1942	125	90	179	103	121
1943	163	114	213	99	152
1944	193	123	265	131	180
1945	217	132	289	168	198
1946	271	155	299	202	230
1947	315	210	296	264	268
1948	327	246	309	299	290
1949	314	284	292	296	299
1950	330	318	284	322	337
1951	361	312	271	338	405
1952	388	315	250	367	453

Source: Printers' Ink; based on dollar expenditures.

* Including business papers and television since January and February 1949.

Table 61.

U.S. Newspaper Pages Printed

Annual Averages					
Year	Dailies	Sundays	Year	Dailies	Sundays
1920	23	79	1936	28	85
1921	23	80	1937	28	87
1922	25	89	1938	26	81
1923	27	97	1939	27	82
1924	28	103	1940	27	86
1925	29	109	1941	27	88
1926	30	111	1942	26	82
1927	30	107	1943	26	78
1928	30	104	1944	23	68
1929	32	104	1945	22	70
1930	29	91	1946	27	84
1931	27	82	1947	29	94
1932	24	72	1948	32	102
1933	24	70	1949	34	107
1934	26	78	1950	36	112
1935	26	82	1951	36	113
			1952	36	116

Source: Newsprint Service Bureau Bulletins.

Table 62.

U.S. Advertising Expenditures (All Media) and National Income

Millions of Dollars			
Year	Advertising Expenditure	National Income	Percent Advertising to Income
1935	1,690.0	56,800	2.97
1936	1,902.4	64,700	2.94
1937	2,071.7	73,600	2.81
1938	1,904.0	67,400	2.82
1939	1,980.4	72,500	2.73
1940	2,087.6	81,300	2.57
1941	2,235.7	103,800	2.15
1942	2,156.1	137,100	1.57
1943	2,496.4	169,700	1.47
1944	2,723.6	183,800	1.48
1945	2,874.5	182,700	1.57
1946	3,364.2	180,300	1.87
1947	4,259.7	198,700	2.14
1948	4,863.6	223,500	2.18
1949	5,202.2	216,300	2.41
1950	5,710.0	239,200	2.39
1951	6,496.5	277,600	2.34

Source: Printers' Ink; U.S. Department of Commerce.

Table 63. U.S. Newspaper Advertising and Total Advertising Expenditures

Millions of Dollars			
Year	Newspaper Advertising	Total Advertising	Newspaper Percent of Total
1935	762.1	1690.0	45.1
1936	843.5	1902.4	44.3
1937	872.6	2071.7	42.1
1938	782.4	1904.0	41.1
1939	793.0	1980.4	40.0
1940	815.4	2087.6	39.1
1941	844.4	2235.7	37.8
1942	797.5	2156.1	37.0
1943	899.9	2496.4	36.0
1944	888.0	2723.6	32.6
1945	921.4	2874.5	32.1
1946	1158.3	3364.2	34.4
1947	1475.0	4259.7	34.6
1948	1749.6	4863.6	36.0
1950	2075.6	5710.0	36.3
1951	2257.7	6496.5	34.7

Source: Printers' Ink.

Table 64.

U.S. Newspaper, Magazine, Radio, and TV Advertising

	Newspapers Million Lines	Magazines Thousand Lines	Radio Thousand Dollars	National TV Thousand Dollars
1928	1802	36,384	10,248	.....
1929	1897	40,608	18,732	.....
1930	1654	35,808	26,820	.....
1931	1465	28,908	35,784	.....
1932	1165	21,162	39,107	.....
1933	1065	18,666	31,516	.....
1934	1179	24,325	42,648	.....
1935	1247	25,380	49,284	.....
1936	1380	28,534	59,356	.....
1937	1410	32,049	69,249	.....
1938	1225	25,439	71,728	.....
1939	1244	25,616	83,115	.....
1940	1269	26,851	96,468	.....
1941	1313	27,667	106,141	.....
1942	1242	25,729	115,405	.....
1943	1396	33,116	152,644	.....
1944	1361	42,297	190,665	.....
1945	1392	49,035	190,746	.....
1946	1730	54,755	193,008	.....
1947	2009	50,794	190,930	.....
1948	2263	47,844	198,993	.....
1949	2302	43,817	187,800	20,604
1950	2440	45,845	183,520	69,035
1951	2478	48,076	174,719	204,230
1952	2505	48,331	163,454	283,956

Sources: Newspapers: Media Records 52 Cities. Magazines and TV: Printers' Ink. Radio: CBS, NBC, ABC, Mutual; Publishers Information Bureau.

Table 65. Value of Canadian Newsprint and Total Pulp and Paper Production

Millions of Dollars			
Year	Newsprint Production	Total Production	Newsprint Percent of Total
1928	144.1	233.1	61.8
1929	150.8	244.0	61.8
1930	136.2	216.0	63.1
1931	111.4	174.7	63.8
1932	85.5	135.6	63.1
1933	67.0	123.4	54.3
1934	86.8	152.6	56.9
1935	91.8	159.3	57.6
1936	105.2	183.6	57.3
1937	126.4	226.2	55.9
1938	107.1	183.9	58.2
1939	120.9	208.2	58.1
1940	158.4	298.0	53.2
1941	158.9	334.7	47.5
1942	147.1	336.7	43.7
1943	153.0	344.4	44.4
1944	165.7	369.8	44.8
1945	189.0	398.8	47.4
1946	280.8	527.8	53.2
1947	355.5	707.0	50.3
1948	402.1	825.9	48.7
1949	468.0	836.1	56.0
1950	507.0	954.1	53.1
1951	564.4	1,237.9	45.6

Figures for 1928-1948 do not include Newfoundland.
Source: Dominion Bureau of Statistics.

Table 66.
Newsprint and Total Canadian Exports to United States

Year	Millions of Dollars		
	Newsprint Exports to U.S.	Total Exports to U.S.	Percent Newsprint of Total
1910	1.2	104.2	1.2
1912	2.0	102.0	2.0
1914	9.8	163.4	6.0
1916	15.8	201.1	7.9
1918	30.7	417.2	7.4
1919	36.0	455.0	7.9
1920	46.8	464.0	10.0
1921	68.8	566.7	12.1
1922	59.9	310.7	19.3
1923	67.7	370.8	18.3
1924	87.3	443.2	19.7
1925	89.1	420.4	21.2
1926	106.8	465.2	22.9
1927	114.0	474.6	24.0
1928	123.5	492.5	25.1
1929	129.0	522.6	24.7
1930	115.3	395.7	29.1
1931	94.4	257.1	36.7
1932	72.0	162.6	44.3
1933	58.3	187.9	31.0
1934	68.1	301.2	22.6
1935	71.0	358.6	19.8
1936	83.5	406.7	20.5
1937	105.9	470.2	22.5
1938	85.6	270.5	31.6
1939	97.8	380.4	25.7
1940	120.6	443.0	27.2
1941	130.9	599.7	21.8
1942	132.4	885.5	15.0
1943	131.4	1,149.2	11.4
1944	135.2	1,301.3	10.4
1945	148.4	1,197.0	12.4
1946	225.6	887.9	25.4
1947	293.5	1,034.2	28.4
1948	342.8	1,501.0	22.8
1949	396.4	1,510.1	26.2
1950	465.3	2,021.0	23.0
1951	500.5	2,297.7	21.8
1952	534.4	2,307.0	23.2

For the period 1910 to 1925 inclusive figures relate to fiscal years.
Figures for 1928-1948 do not include Newfoundland.

Source: Dominion Bureau of Statistics.

"E" — OTHER PAPER AND PAPERBOARD

All figures after 1948 include Newfoundland

Table 67. Production — Tonnage
All grades except newsprint

	Paper-board (a)	Wrapping	Book and Writing	Tissue	All Other
1920	158,041	77,292	73,196	3,607	27,119
1921	89,120	52,898	53,530	3,879	14,406
1922	113,200	81,793	64,808	5,758	19,892
1923	130,582	84,912	76,789	4,980	40,499
1924	135,252	89,441	67,934	5,716	32,317
1925	144,646	91,417	74,724	7,200	30,195
1926	155,469	97,057	80,403	7,401	36,605
1927	161,497	102,707	75,072	8,849	37,736
1928	193,061	111,667	79,138	10,896	40,044
1929	250,061	91,374	73,502	9,796	47,085
1930	233,217	78,320	69,468	11,245	36,585
1931	202,854	77,194	59,580	11,560	32,985
1932	209,938	69,018	56,781	12,187	23,638
1933	232,190	67,780	60,683	12,331	24,471
1934	280,724	79,779	64,991	10,258	28,791
1935	314,849	82,517	70,350	18,107	29,629
1936	363,778	95,916	74,940	18,661	28,029
1937	422,710	108,734	84,168	23,747	32,116
1938	356,891	90,879	73,834	25,922	32,919
1939	413,687	109,907	90,135	29,706	30,470
1940	500,094	139,716	102,696	34,054	39,053
1941	649,840	162,581	117,444	35,725	39,453
1942	609,175	165,991	121,419	38,322	39,680
1943	568,101	145,545	122,174	43,247	40,835
1944	588,348	156,721	155,498	46,532	57,494
1945	595,131	162,175	162,198	50,418	65,621
1946	683,643	175,369	189,318	56,717	79,913
1947	744,377	188,742	210,762	67,506	89,431
1948	817,432	207,128	231,608	69,686	97,456
1949	797,023	195,585	199,317	68,340	92,498
1950	876,894	222,840	214,097	76,742	102,474
1951	960,493	257,332	253,081	89,583	103,667
1952	857,985e	224,467e	234,182e	n.a.	n.a.

(a) Includes rigid insulating and other wall board; sheathing; bristol and index; all other boards.
e: Canadian Pulp and Paper Association estimate.
n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 68. Production — Value
All grades except newsprint

	Paperboard (a)	Wrapping	Book and Writing	Tissue	All Other
1920	\$12,904,662	\$12,161,303	\$21,868,807	\$1,155,324	\$3,067,400
1921	6,225,948	6,634,211	12,550,520	1,232,398	1,126,260
1922	7,000,081	8,219,841	12,560,504	1,154,772	1,353,553
1923	8,480,233	7,666,174	13,582,135	991,880	3,250,608
1924	8,228,760	8,027,918	12,605,623	1,024,967	3,155,326
1925	8,378,621	8,130,102	13,145,407	1,385,089	2,852,815
1926	8,825,804	8,552,400	14,765,725	1,468,004	3,505,348
1927	8,985,788	9,607,828	12,916,469	1,646,487	2,787,439
1928	10,656,200	10,424,217	14,008,406	2,047,206	3,022,744
1929	13,539,645	9,725,876	13,636,562	1,845,395	3,441,617
1930	12,193,829	7,880,224	12,261,659	2,035,325	2,752,954
1931	10,225,732	7,479,993	10,154,171	1,990,925	2,359,431
1932	9,621,041	6,289,293	8,687,895	1,961,468	1,773,574
1933	10,598,439	6,441,695	8,927,408	2,168,497	1,594,335
1934	13,351,475	7,740,823	9,681,536	1,654,534	1,652,397
1935	15,051,893	7,956,783	10,440,789	2,031,221	1,835,499
1936	17,531,451	8,761,356	10,866,346	2,085,489	1,895,491
1937	21,719,730	10,237,823	12,620,507	2,734,307	2,148,753
1938	19,288,172	9,069,298	11,098,901	2,961,482	2,181,010
1939	21,359,828	10,712,394	12,773,781	3,060,456	2,011,020
1940	31,078,759	14,457,299	15,518,667	3,709,952	2,624,821
1941	40,214,658	16,744,806	18,476,397	4,199,139	2,889,982
1942	38,641,867	17,221,769	19,181,665	5,036,489	3,113,613
1943	37,528,257	15,614,453	19,047,039	5,637,142	3,246,393
1944	39,091,667	16,699,663	23,700,310	6,391,770	4,007,266
1945	40,100,872	17,558,552	24,468,409	7,065,732	4,620,313
1946	50,213,833	20,797,070	29,995,156	9,015,540	6,125,181
1947	66,126,302	26,009,996	39,727,187	12,179,656	7,517,467
1948	80,864,700	31,036,805	45,178,968	13,927,917	9,238,734
1949	80,632,075	30,033,478	40,598,820	13,950,007	8,269,115
1950	92,531,711	37,776,291	47,356,410	15,885,792	9,635,415
1951	113,469,950	49,664,005	65,790,259	21,574,730	11,169,512

(a) Includes rigid insulating and other wall board; sheathing; bristol and index; all other boards.

Source: Dominion Bureau of Statistics.

Table 69.

Production of Building Boards and Building Papers

	Building Boards (a)		Building Papers (b)	
	Tons	\$	Tons	\$
1921	23,542	1,437,740	14,406	1,126,260
1922	31,176	1,580,496	19,892	1,353,553
1923	46,401	2,601,533	32,797	2,315,688
1924	49,577	2,787,633	25,178	2,102,292
1925	42,599	2,213,490	23,800	2,051,873
1926	45,694	2,378,861	28,049	2,094,073
1927	43,331	2,269,956	33,817	2,151,413
1928	46,569	2,406,554	34,040	2,265,404
1929	53,829	2,687,387	32,560	2,016,057
1930	48,718	2,723,436	26,746	1,588,228
1931	43,328	2,345,093	28,946	1,519,020
1932	28,035	1,410,426	16,095	807,762
1933	23,050	1,131,872	15,227	775,785
1934	28,920	1,391,812	22,467	1,104,172
1935	34,424	1,620,583	21,752	1,159,249
1936	44,838	2,114,207	23,403	1,284,168
1937	51,934	2,567,715	26,962	1,400,496
1938	46,203	2,359,366	23,659	1,309,290
1939	56,649	2,862,506	29,970	1,497,603
1940	83,356	5,086,688	35,720	1,913,899
1941	108,585	6,767,709	42,018	2,375,261
1942	109,961	6,750,198	43,472	2,523,060
1943	116,834	7,845,612	44,637	2,610,790
1944	111,554	7,682,631	50,879	3,017,412
1945	119,391	8,440,191	58,199	3,459,384
1946	138,425	10,459,532	71,081	4,684,693
1947	164,374	14,039,205	79,858	5,703,911
1948	194,067	18,255,528	88,454	7,368,976
1949	182,631	16,703,056	83,471	6,320,791
1950	177,769	16,518,747	92,414	7,228,146
1951	218,554	21,663,558	91,527	7,889,667

(a) Includes woodpulp board used in paper converting plants to produce laminated wallboards.

(b) Figures for years prior to 1936 include some saturated felts and sheathings.

Source: Dominion Bureau of Statistics.

Table 70.

Exports of Paper (Except Newsprint) — Volume

In the past, the basis and classification upon which exports of paper other than newsprint have been compiled have been modified from time to time. Consequently, only figures covering recent years are included in this and in the succeeding table.

Moreover, because they are compiled on a somewhat different basis, the two tables which follow are not comparable to the production figures in tables 67 and 68.

Tons	1952	1951	1950	1949	1948	1947	1946	1945	1944
Wrapping — Coated	944	1,266	292	1,469	3,095	2,659	2,259	.....	.....
Wrapping — Kraft — n.o.p. . . .	10,622	12,366	7,535	8,530	11,215	12,960	14,270	22,113	17,941
Wrapping — n.o.p.	2,369	3,019	1,903	3,423	7,283	5,674	5,924	6,983	7,550
Book	28,772	27,438	17,261	13,438	36,882	37,291	24,676	17,124	17,402
Bond & Writing	10,130	7,347	2,149	3,347	5,036	9,655	6,175	4,184	3,989
Paperboard — n.o.p.	51,605	69,259	49,453	56,557	90,443	62,444	59,799	64,643	62,580
Roofing & Building Paper	1,755	6,662	2,420	1,785	5,341	11,018	4,146	3,366	3,088
Building & Insulating Board . . .	19,328	21,738	7,021	11,968	15,852	20,209	14,294	17,914	13,641
Waste Paper — n.o.p.	21,693	27,081	28,971	17,356	15,185	10,451	10,421	11,260	10,669
Pulpboard for Wallboards	20,933	25,068	25,553	22,991	29,164	31,636	27,610	29,625	28,147
Tissue Paper	924	418	60	52	794	1,682	328	377	709
Toilet Paper	2,699	3,487	2,551	3,562	5,716	3,339	1,878	2,980	2,479
	171,774	203,149	145,169	144,478	226,006	209,018	171,780	180,569	168,195

n.o.p.: not otherwise provided for.

Source: Dominion Bureau of Statistics.

Also, some of the exports go through a converting plant before shipment. Thus, many of the exports have a value enhanced by the conversion or packaging process, whereas the production figures show the valuation at the basis rate.

Again, the tonnage figures for certain paper products exported are not available. The dollar figures covering these exports will be found in the succeeding table under the heading "Paper Products".

Table 71.

Exports of Paper (Except Newsprint) — Value

(See note accompanying the preceding table)

Paper	1952	1951	1950	1949	1948	1947	1946	1945	1944
Wrapping — Coated	\$ 308,135	\$ 485,843	\$ 78,637	\$ 361,797	\$ 719,362	\$ 621,087	\$ 428,117	.....	.....
Wrapping — Kraft — n.o.p.	2,232,134	2,665,974	1,159,631	1,393,184	1,793,314	1,853,880	1,720,167	\$ 2,555,522	\$ 1,989,604
Wrapping — n.o.p.	636,867	577,155	276,891	555,329	1,097,622	920,379	941,112	1,215,050	1,267,410
Book	5,343,040	5,283,533	2,755,746	2,165,837	5,840,550	6,068,943	3,580,946	3,062,502	3,012,611
Bond & Writing	3,770,853	2,567,668	534,062	923,088	1,485,841	2,549,180	1,410,794	877,296	778,829
Paperboard — n.o.p.	6,990,766	9,410,511	5,231,195	5,907,085	9,887,003	6,940,775	5,622,884	5,397,180	5,082,130
Roofing & Building Paper	152,225	577,052	153,504	108,995	508,582	841,160	330,205	185,831	157,373
Building & Insulating Board	2,096,727	2,327,497	689,100	1,258,749	1,437,700	1,878,294	1,234,205	1,438,850	1,181,774
Waste paper — n.o.p.	936,118	2,154,913	1,396,735	518,798	569,879	287,614	264,338	255,590	198,150
Pulpboard for Wallboards	2,165,043	2,324,008	2,035,135	1,798,317	2,194,904	2,110,674	1,562,941	1,621,460	1,402,121
Tissue Paper	259,605	150,996	17,081	15,854	207,298	409,345	87,666	78,315	133,424
Toilet Paper	609,977	804,966	447,591	723,387	1,472,949	710,109	308,192	502,796	402,573
	\$25,501,490	\$29,330,116	\$14,775,308	\$15,730,400	\$27,215,004	\$25,191,440	\$17,491,567	\$17,190,392	\$15,605,999
Paper Products									
Bags, Boxes & Cartons	973,982	1,834,501	\$ 855,722	\$ 778,364	\$ 1,846,385	\$ 1,108,720	\$ 819,430	\$ 1,555,349	\$ 838,587
Hanging or Wall	1,005,842	1,081,319	1,014,588	723,927	595,496	769,625	687,149	459,566	311,819
Hanging not Printed	48,456	11,971	3,834	.....	15,999	47,429	70,080	.....	.....
Writing Paper — n.o.p.	195,922	193,041	72,995	90,858	225,198	542,741	378,821	807,402	625,650
Other Paper	668,650	1,158,686	713,141	494,096	1,199,436	1,521,174	1,285,535	1,376,534	925,593
	\$ 2,892,852	\$ 4,279,518	\$ 2,660,280	\$ 2,087,245	\$ 3,882,514	\$ 3,989,689	\$ 3,241,015	\$ 4,198,851	\$ 2,701,649
	\$28,394,342	\$33,609,634	\$17,435,588	\$17,817,645	\$31,097,518	\$29,181,129	\$20,732,582	\$21,389,243	\$18,307,648

n.o.p.: not otherwise provided for.

Source: Dominion Bureau of Statistics.

"F" — NATIONAL SIGNIFICANCE

All figures after 1948 include Newfoundland

Table 72.

Production and Exports of Paper

	Production		Exports	
	Tons	Value	Tons (a)	Value
1920	1,214,951	\$132,022,767	780,932	\$ 86,744,010
1921	1,018,947	106,553,935	733,549	75,510,945
1922	1,366,815	106,260,078	994,848	74,825,893
1923	1,589,303	127,184,370	1,778,743	93,770,957
1924	1,718,741	133,319,497	1,263,342	99,248,497
1925	1,884,705	140,160,675	1,442,296	106,624,046
1926	2,266,143	158,182,227	1,770,386	121,414,513
1927	2,468,691	168,230,740	1,918,866	129,637,687
1928	2,849,199	184,305,405	2,252,757	147,156,792
1929	3,197,149	192,989,252	2,563,859	154,919,122
1930	2,926,787	173,305,874	2,372,640	138,530,243
1931	2,611,225	143,629,889	2,042,151	111,114,042
1932	2,290,767	113,873,123	1,805,130	86,323,539
1933	2,419,420	96,689,875	1,871,191	72,396,132
1934	3,069,516	120,892,225	2,454,341	87,633,721
1935	3,280,896	125,752,650	2,617,579	94,041,591
1936	3,806,710	146,354,666	3,061,174	110,861,428
1937	4,345,361	175,885,423	3,532,269	136,164,168
1938	3,249,358	151,650,065	2,545,456	112,872,776
1939	3,600,502	170,776,062	2,795,876	124,127,164
1940	4,319,414	225,836,809	3,489,946	170,879,526
1941	4,524,776	241,450,292	3,587,181	176,184,025
1942	4,231,767	230,269,512	3,241,941	156,938,084
1943	3,966,344	234,036,152	2,983,882	160,825,462
1944	4,044,376	255,545,841	3,012,975	177,290,282
1945	4,359,576	282,837,614	3,285,611	203,011,992
1946	5,347,118	396,956,390	4,045,795	287,437,805
1947	5,775,082	507,101,277	4,452,090	373,070,338
1948	6,063,646	582,346,842	4,587,501	416,681,608
1949	6,539,969	641,459,838	4,952,283	459,039,871
1950	6,812,035	710,153,826	5,118,417	505,314,242
1951	7,225,271	824,029,649	5,359,303	574,106,206
1952	7,104,973e	n.a.	5,526,127	622,136,313

a: Weight of items of export classification for which tonnage figures are available (see note accompanying Table 70). The value figures, however, cover all exports of paper and paper products.

c: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 73.

Imports of Wood-pulp and Paper and Paper Goods

	Wood-pulp		Paper and Paper Goods (a)	
	Tons	Value	Tons	Value
1915	a	\$ 423,331	a	\$ 2,402,507
1916	a	552,002	a	3,321,569
1917	a	587,369	a	4,204,968
1918	a	470,516	a	8,480,498
1919	a	609,804	a	9,246,414
1920	21,141	1,940,461	21,141	14,059,046
1921	17,354	1,683,041	17,354	8,395,267
1922	17,300	1,008,527	17,300	8,295,094
1923	17,229	947,225	17,229	9,112,896
1924	24,497	1,375,991	24,497	9,327,942
1925	23,423	1,274,542	23,423	9,142,177
1926	22,939	1,211,186	22,939	10,977,946
1927	23,678	1,258,533	23,678	11,618,538
1928	22,424	1,107,801	22,424	13,260,288
1929	19,874	1,024,569	19,874	14,739,472
1930	18,526	826,862	18,526	12,907,658
1931	14,418	592,904	14,418	9,585,986
1932	13,420	462,649	13,420	6,790,363
1933	5,708	177,289	5,708	5,345,603
1934	8,205	257,782	8,205	5,503,081
1935	16,578	534,358	16,578	5,828,073
1936	19,201	617,599	19,201	6,706,408
1937	21,053	695,819	21,053	7,981,545
1938	16,979	561,474	16,979	7,520,328
1939	21,544	763,141	21,544	8,653,987
1940	19,996	814,387	19,996	8,858,180
1941	20,653	1,069,953	20,653	9,341,390
1942	21,451	1,298,521	21,451	10,675,315
1943	21,662	1,452,133	21,662	10,701,736
1944	13,747	1,100,412	13,747	12,156,601
1945	14,510	1,166,078	14,510	13,376,067
1946	14,471	1,290,956	14,471	18,834,089
1947	28,326	3,068,086	28,326	23,027,200
1948	33,004	3,799,597	33,004	17,212,565
1949	35,432	3,965,086	35,432	20,207,068
1950	36,583	3,692,274	36,583	23,433,530
1951	36,416	4,546,204	36,416	34,831,145
1952	54,589	5,499,093	54,589	29,920,960

a: Quantity not available.

Source: Dominion Bureau of Statistics.

Table 74.
Pulp and Paper Exports and Canadian Trade

	Pulp and paper Exports	Total domestic exports of Canada	Pulp and paper exports to total exports — %	Trade Balance
1919 . . .	\$ 97,168,278	\$1,235,958,483	7.86	\$348,778,322
1920 . . .	163,127,988	1,268,014,533	12.86	38,758,816
1921 . . .	108,644,620	800,149,296	13.58	14,665,274
1922 . . .	115,863,742	880,408,645	13.16	131,814,604
1923 . . .	140,798,453	1,002,401,467	14.05	112,955,801
1924 . . .	139,491,469	1,029,699,449	13.55	234,108,594
1925 . . .	134,555,951	1,239,554,207	12.47	361,472,800
1926 . . .	173,491,635	1,261,241,525	13.76	268,256,906
1927 . . .	176,633,728	1,210,596,998	14.59	143,924,299
1928 . . .	192,771,615	1,339,409,562	14.39	141,470,440
1929 . . .	198,287,106	1,152,416,330	17.21	120,650,245
1930 . . .	177,590,222	863,683,761	20.56	125,331,731
1931 . . .	141,170,685	587,653,440	24.02	28,537,926
1932 . . .	105,253,603	489,883,112	21.48	45,299,340
1933 . . .	95,750,769	529,449,529	18.09	134,269,478
1934 . . .	113,078,565	649,314,236	17.42	142,836,731
1935 . . .	121,667,321	724,977,459	16.78	187,621,328
1936 . . .	142,108,123	937,824,933	15.15	315,318,408
1937 . . .	177,979,899	997,366,918	17.84	203,225,455
1938 . . .	140,603,514	837,583,917	16.79	171,232,779
1939 . . .	155,127,766	924,926,104	16.77	184,866,179
1940 . . .	231,809,675	1,178,954,420	19.66	111,266,873
1941 . . .	262,081,761	1,621,003,175	16.17	191,662,891
1942 . . .	253,104,957	2,363,773,296	10.71	741,224,113
1943 . . .	260,838,237	2,971,475,277	8.78	1,266,275,389
1944 . . .	278,853,306	3,439,953,165	8.11	1,724,200,415
1945 . . .	309,066,903	3,218,330,353	9.60	1,681,649,146
1946 . . .	401,458,464	2,312,215,301	17.36	411,886,445
1947 . . .	550,872,950	2,774,902,355	19.85	237,846,285
1948 . . .	628,245,992	3,075,438,085	20.43	473,083,316
1949 . . .	630,544,034	2,998,356,417	21.03	254,085,902
1950 . . .	713,869,791	3,118,386,551	22.89	17,180,465
1951 . . .	939,239,090	3,914,460,376	23.99	170,396,102
1952 . . .	913,999,811	4,301,080,679	21.25	270,613,026

—: Unfavourable balance.

Domestic exports cover exports of Canadian produce. In the last 20 years, domestic exports cover approximately 98 per cent or more of total Canadian exports.

Pulp and paper export figures 1919-1930 estimated by DBS from fiscal year figures.

Source: Dominion Bureau of Statistics.

Table 75.
Products of Newfoundland's Pulp and Paper Mills
(Finished products for sale)

Calendar Year	Newsprint & Sideruns Tons	Sulphite Pulp Tons	Mechanical Pulp Tons	Sundries* Tons	Total Production Tons
1938 . . .	268,625	885	—	323	269,833
1939 . . .	308,530	5,975	—	326	314,831
1940 . . .	361,703	26,647	6,432	361	395,143
1941 . . .	360,930	44,470	14,806	657	420,863
1942 . . .	283,358	62,970	29,025	1,386	376,739
1943 . . .	239,882	47,007	38,502	4,393	329,784
1944 . . .	278,159	27,005	44,161	7,404	356,729
1945 . . .	344,573	37,014	14,237	4,337	400,161
1946 . . .	374,993	17,952	—	4,528	397,473
1947 . . .	387,097	43,020	468	4,144	434,729
1948 . . .	397,983	54,899	3,228	3,867	459,977

* Includes mill wrappers, sheathing paper, sulphite wrapping for local use.

This table is included for reference purposes only. Since Confederation with Canada in 1949, Newfoundland figures have been incorporated into the Canadian totals.

Source: Newfoundland Department of Natural Resources.

Table 76.
Production by Provinces 1951

Provinces	Pulpwood Cords *	Woodpulp Tons	Paper Tons
Quebec	7,099,215	4,282,568	3,511,669
Ontario	3,706,147	2,484,551	2,019,235
British Columbia	860,016	924,154	513,165
Other Provinces (a)	3,388,532	1,623,576	1,181,202
Canada	15,053,910	9,314,849	7,225,271

a: Newfoundland, Nova Scotia, New Brunswick and Manitoba.

* Rough or unpeeled wood.

Source: Dominion Bureau of Statistics.

Table 77.
Principal Statistics by Provinces 1951

Provinces	Mills No.	Employees (a) No.	Salaries and Wages (a) \$	Cost of Fuel and Electricity \$	Cost of Materials Used \$	Gross Value of Products \$	Net Value of Products \$
Newfoundland	3	3,279	13,392,916	2,650,023	23,133,696	59,958,553	34,174,834
Nova Scotia	4	1,143	3,727,099	1,394,655	6,302,882	18,574,028	10,876,491
New Brunswick	7	3,807	14,243,528	6,296,831	39,349,400	94,066,395	48,420,164
Quebec	55	24,449	89,047,307	37,629,671	213,576,247	524,164,254	272,958,336
Ontario	44	18,348	69,105,025	20,979,685	152,196,242	387,041,628	213,865,701
Manitoba	2	487	1,754,303	929,216	3,522,079	12,589,185	8,137,890
British Columbia	11	5,778	21,899,728	5,745,637	44,933,463	141,503,427	90,824,327
Canada	126(b)	57,291	213,169,906	75,625,718	483,014,009	1,237,897,470	679,257,743

(a) Woods workers not included.

(b) See foot-note in Table 80.

Source: Dominion Bureau of Statistics.

Table 78.
Exports of Canadian Products to the United States

	1950	%	1951	%	1952	%
Pulp	\$ 191,005,507	9.5	\$ 276,760,578	12.1	\$ 225,082,376	9.8
Newsprint*	465,288,267	23.0	500,525,110	21.8	556,143,130	23.2
Other paper and paper products	11,800,568	.6	17,059,334	.7	13,172,538	.6
	\$ 668,094,342	33.1	\$ 794,345,022	34.6	\$ 774,400,044	33.6
Wood, wood products and paper	\$1,016,395,752	50.3	\$1,114,581,439	48.5	\$1,081,016,011	46.9
Animals and animal products	253,332,871	12.5	265,527,696	11.6	147,965,965	6.4
Non-ferrous metals and their products	267,043,186	13.2	278,008,661	12.1	349,650,360	15.1
Agricultural and vegetable products	176,936,913	8.8	263,442,560	11.5	301,306,862	13.1
Iron and its products	136,445,450	6.7	169,187,778	7.4	172,701,418	7.5
Non-metallic minerals and their products	73,982,954	3.7	89,925,676	3.9	96,640,362	4.2
Chemicals and allied products	58,498,824	2.9	67,253,116	2.9	75,107,037	3.2
Fibres, textiles and textile products	18,342,986	.9	19,588,473	.8	17,441,531	.8
Miscellaneous commodities	20,008,694	1.0	30,159,195	1.3	65,125,392	2.8
Total, excluding gold	\$2,020,987,630	100.	\$2,297,674,594	100.	\$2,306,954,938	100.

* Includes mutilated newsprint valued at \$2,132,340 in 1950, \$3,672,913 in 1951, and \$1,772,271 in 1952.

Source: Dominion Bureau of Statistics.

Table 79.
Pulp and Paper Production and the National Income

	Gross Production of Industry	Gross National Product (a) '000,000	Net Production of Industry (b)	Net National Income (a) '000,000
1926	\$ 215,370,274	\$ 5,294	\$109,580,404	\$ 4,185
1927	219,329,753	5,647	110,492,354	4,417
1928	233,077,236	6,105	120,039,858	4,823
1929	243,970,761	6,166	122,288,583	4,789
1930	215,970,761	5,546	107,959,927	4,283
1931	174,733,954	4,560	88,166,297	3,333
1932	135,648,729	3,767	67,121,459	2,630
1933	123,415,492	3,552	57,289,643	2,452
1934	152,647,756	4,034	77,696,593	2,897
1935	159,325,546	4,545	79,199,741	3,188
1936	183,632,995	4,701	86,406,165	3,487
1937	226,244,711	5,355	106,002,017	4,062
1938	183,897,503	5,233	89,034,186	4,018
1939	208,152,295	5,707	103,123,660	4,373
1940	298,034,843	6,872	158,230,575	5,263
1941	334,726,175	8,517	174,852,041	6,663
1942	336,697,277	10,539	164,500,420	8,337
1943	344,411,614	11,183	164,244,088	9,043
1944	369,846,086	11,954	174,492,103	9,826
1945	398,805,515	11,850	180,401,885	9,840
1946	527,814,916	12,026	258,164,578	9,821
1947	706,971,628	13,768	356,084,900	10,985
1948	825,857,664	15,613	412,770,470	12,560
1949	836,148,393	16,462	423,375,527	13,194
1950	954,137,651	18,122†	511,142,983	14,555†
1951	1,237,897,470	21,241†*	679,257,743	17,229†*

* Preliminary figures.

† Includes Newfoundland since 1949. In 1948, the last year before accession, Newfoundland's Gross National Product was about \$175 million.

All National Income figures from 1926 have been compiled on a revised basis in December, 1951. Figures for years prior to 1926 are not comparable.

a: The "national income" is the total of all incomes earned by Canadians in the production of goods and services during the calendar year. The "gross national product" is the market value of all goods and services produced by Canadians. It is obtained by adding to the national income two items which are not "income" but which are part of the final cost of all goods and services—namely, allowances for depreciation of plant and equipment, and indirect taxes less subsidies.

b: The "net value of production" or value added by manufacture is computed by subtracting the cost of fuel and electricity as well as the cost of materials from the gross value of the products.

The figures for the years prior to 1926, when the National Income figures were compiled on a different basis and for which the gross National product figures are not available, were as follows:

	Gross Production of Industry	Net Production of Industry	National Income
1921	\$151,003,165	\$73,765,200	\$3,507
1922	158,950,956	81,258,232	3,671
1923	184,821,511	95,076,985	3,847
1924	179,259,504	89,629,253	3,865
1925	193,092,937	99,071,212	4,239

Source: Dominion Bureau of Statistics.

Table 80.
Growth of Industry

	Paper and Paper Mills (a)	Total Employees	Total Production
1871	21	760	\$ 1,071,651
1881	41	1,588	2,509,993
1891	58	2,817	5,633,257
1901	53	6,236	8,627,557
1911	72	9,766	23,226,479
1921	100	24,619	151,003,165
1931	103	26,669	174,733,954
1941	106	37,154	334,726,175
1945	109	39,996	398,804,515
1946	113	44,967	527,814,916
1947	115	49,946	706,971,628
1948	117	51,924	825,857,664
1949	123	52,050	836,148,393
1950	123	52,343	954,137,651
1951	126	57,291	1,237,897,470

a: Number of mills operated during year.

b: Includes products other than pulp or paper valued at \$36,575.

Note: At the close of 1952 there were altogether 131 pulp and paper mills in Canada, which were active during all or part of the year. This total includes two asbestos paper mills which, for statistical purposes report in the Asbestos Products industry only.

Manufacturers of moulded pulp products and of laminated, coated or impregnated papers and paperboards are classed in the Paper Goods industry or in the Roofing Paper industry only, unless they produce the pulp or paper used, in which case separate returns are made covering pulp and paper manufacture and paper conversion.

Source: Dominion Bureau of Statistics.

Table 81.
Operations of Mills

	No. of mills 1951
Groundwood pulp	72
Mechanical screenings	21
Soda pulp	1
Bleached sulphite (dissolving)	7
Bleached sulphite (paper pulp)	14
Unbleached sulphite (strong)	13
Unbleached sulphite (news grade)	31
Sulphate pulp, bleached	7
Sulphate pulp, semi-bleached	2
Sulphate pulp, unbleached	14
Chemical screenings	33
Defibrated and exploded pulps	8
Other pulp	5
Newsprint	37
Groundwood printing and specialty papers	8
Book paper	12
Fine papers	12
Miscellaneous fine papers	11
Tissue paper other than sanitary	11
Sanitary paper	14
Special industrial papers	9
Wrapping papers	18
Building papers	13
Paperboard	39
Building boards	8
Wet machine boards	3

Note: Most mills make two or more products. There were in all 126 active mills in 1951. (See foot-note in Table 80)

Source: Dominion Bureau of Statistics.

Table 82.
Mill Locations

	Pulp Mills	Pulp & Paper Mills	Paper Mills	Total
Newfoundland	1	2	—	3
Nova Scotia	2	2	—	4
New Brunswick	4	3	—	7
Quebec	12	33	10	55
Ontario	9	19	16	44
Manitoba	—	2	—	2
British Columbia	6	5	—	11
Canada	34	66	26	126

Note: See foot-note in Table 80.

Source: Dominion Bureau of Statistics.

Table 83.
Capital Expenditures

For the years 1946 to 1952, annual surveys of the Department of Trade & Commerce, covering some 95 per cent of the industry, show the following capital expenditures:

Year	Millions of \$
1946	49.5
1947	77.7
1948	79.9
1949	71.8
1950	68.6
1951	102.1*
1952	129.1*
	578.7

* Preliminary.

The foregoing figures do not include capital expenditures made on the woodlands nor, of course, expenditures for maintenance and renewals.

Table 84.

Employees and Wages

	Total Employees	Employees On Salary	Total Salaries Paid	Average Salary	Employees On Wages	Wages Paid	Total Average Wage	Wage Index (a)	Consumer Price Index (b)	Total Salaries & Wages
1920	31,298	2,669	\$ 6,536,579	\$ 2,449	28,629	\$ 38,717,314	\$ 1,352	47.4	90.5	\$ 45,253,893
1921	24,611	2,353	6,363,304	2,704	22,258	27,835,786	1,251	43.9	80.9	34,199,090
1922	25,830	2,608	6,326,635	2,426	23,222	26,592,320	1,145	40.1	74.9	32,918,955
1923	29,234	2,820	7,069,196	2,507	26,414	31,313,649	1,185	41.5	75.2	38,382,845
1924	27,627	2,993	6,938,659	2,318	24,634	30,710,869	1,247	43.7	74.0	37,649,528
1925	28,031	2,971	6,816,191	2,294	25,060	31,744,714	1,267	44.4	74.6	38,560,905
1926	31,279	3,099	7,492,040	2,418	28,180	36,683,462	1,302	45.7	75.9	44,175,502
1927	32,876	3,174	8,093,830	2,550	29,702	37,580,463	1,265	44.4	74.6	45,674,293
1928	33,614	3,507	8,713,671	2,485	30,107	38,608,977	1,282	45.0	75.0	47,322,648
1929	34,202	3,738	9,391,901	2,513	30,464	40,822,544	1,340	47.0	75.8	50,214,445
1930	33,207	3,532	9,538,588	2,701	29,675	36,236,388	1,221	42.8	75.3	45,774,976
1931	26,669	3,170	7,858,859	2,479	23,499	26,933,174	1,146	40.2	67.9	34,792,013
1932	24,561	3,112	7,240,125	2,327	21,449	21,108,003	984	34.5	61.7	28,348,128
1933	24,037	2,920	6,464,510	2,214	21,117	20,193,032	956	33.5	58.8	26,657,542
1934	26,993	3,174	7,148,763	2,252	23,819	26,158,280	1,098	38.5	59.6	33,307,043
1935	27,836	3,290	7,827,961	2,379	24,546	28,065,352	1,143	40.1	59.9	35,893,313
1936	29,478	3,372	7,927,690	2,351	26,106	31,512,384	1,207	42.3	61.1	39,440,074
1937	33,205	4,044	9,561,449	2,364	29,161	39,196,346	1,344	47.1	65.0	48,757,795
1938	30,943	4,263	10,823,536	2,539	26,680	31,795,775	1,192	41.8	63.7	42,619,311
1939	31,016	4,382	10,875,243	2,482	26,634	33,862,136	1,271	44.6	63.2	44,737,379
1940	34,719	4,630	11,693,329	2,526	30,089	44,380,483	1,475	51.7	65.7	56,073,812
1941	37,154	4,970	12,924,964	2,601	32,184	50,752,854	1,577	53.3	69.6	63,677,818
1942	38,002	5,071	13,618,478	2,686	32,931	56,037,915	1,702	59.7	72.9	69,656,393
1943	37,020	5,384	14,663,655	2,724	31,636	56,535,767	1,787	62.7	74.2	71,199,422
1944	37,896	5,488	15,617,507	2,846	32,408	60,215,901	1,858	65.1	74.6	75,833,408
1945	39,996	5,981	16,766,154	2,803	34,015	63,696,490	1,873	65.7	75.0	80,462,644
1946	44,967	6,910	20,959,990	3,033	38,057	80,404,646	2,113	74.1	77.5	101,364,636
1947	49,946	7,706	26,286,577	3,411	42,240	103,191,418	2,443	83.7	84.8	129,477,995
1948	51,924	8,066	30,459,864	3,776	43,858	121,202,897	2,764	96.9	97.0	151,662,761
1949	52,050	8,243	32,784,295	3,977	43,807	124,919,573	2,852	100.0	100.0	157,703,868
1950	52,343	8,578	35,729,300	4,165	43,765	133,517,231	3,051	107.0	102.9	169,246,531
1951	57,291	9,413	44,126,918	4,688	47,878	169,042,988	3,531	123.8	113.7	213,169,906

Woods labour not included.

a: Canadian Pulp and Paper Association figures based on: 100 equals 1949 average wage. Consumer price index: 100 equals 1949.

b: Constructed to replace Cost of Living Index.

Source: Dominion Bureau of Statistics.

Table 85.

Capital, Employees and Wages

	Capital Employed	Number of Employees	Capital Employed per employee	Total Salaries and Wages
1920	\$ 347,553,333	31,298	\$11,105	\$ 45,253,893
1921	379,812,751	24,611	15,433	34,199,090
1922	381,006,324	25,830	14,751	32,918,955
1923	417,611,678	29,234	14,285	38,382,845
1924	459,457,696	27,627	16,631	37,649,528
1925	460,397,772	28,031	16,425	38,560,905
1926	501,184,714	31,279	16,023	44,175,502
1927	579,853,552	32,876	17,638	45,674,293
1928	685,687,459	33,614	20,399	47,322,648
1929	644,773,806	34,202	18,852	50,214,445
1930	703,937,104	33,207	21,198	45,774,976
1931	630,176,540	26,669	24,630	34,792,013
1932	597,550,013	24,561	24,329	28,348,128
1933	559,265,544	24,037	23,267	26,657,542
1934	554,973,891	26,993	20,560	33,307,043
1935	545,572,938	27,836	19,600	35,893,313
1936	536,073,034	29,478	18,186	39,440,074
1937	570,352,287	33,205	17,177	48,757,795
1938	594,908,222	30,943	19,226	42,619,311
1939	597,908,918	31,016	19,277	44,737,379
1940	642,979,942	34,719	18,520	56,073,812
1941	678,937,841	37,154	18,274	63,677,818
1942	655,598,196	38,002	17,251	69,656,393
1943	667,458,143	37,020	18,029	71,199,422
1944	1,100,000,000a	44,967	24,462a	101,364,636
1945	1,200,000,000a	49,946	24,026a	129,477,995
1946	1,300,000,000a	51,924	25,047a	151,662,761
1947	1,375,000,000a	52,050	26,416a	157,703,868
1948	1,440,000,000a	52,343	27,511a	169,246,531
1949	1,525,000,000a	57,291	26,618a	213,169,906

Woods labour is not included.

a: 1943 was the last year in which the Dominion Bureau of Statistics compiled the figures on capital investment. The figures for 1946-51 are Canadian Pulp and Paper Association estimates. These may be conservative, for Taxation Statistics, 1950, of the Department of National Revenue, covering the 1949 taxation year, show that 68 pulp and paper companies had total assets of \$1,707,530,000. Current liabilities were \$258,241,000. On this basis, the capital employed in these 68 companies was \$1,449,289,000 in 1949. While the taxation statistics cover 68 pulp and paper companies, there are a few other companies not included in the statistics.

Source: Dominion Bureau of Statistics.

Table 86.

Estimated Wages Paid and Numbers
Employed in 1951

Wages

Mill Workers	\$213,169,906
Wood Workers*	166,709,000
	\$379,878,906

Workers

Seasonal woods workers on manufacturers' limits east of the Rockies	218,000
Permanent woods workers on manufacturers' limits east of the Rockies	5,400
Woods workers in B.C., mostly permanent	5,000
Woods workers cutting wood for sale to manufacturers	104,900
	333,300
Mill Workers, permanent	57,291
	390,591

* Includes an estimated \$41,462,000 to the 104,900 woods workers cutting pulpwood for sale to the mills. Includes also those working for contractors cutting pulpwood on pulp and paper company limits. The terms of pulpwood cutting contracts are of an infinite variety ranging from those in which the contractor and his men are company employees to those in which the contractor is a free agent. Some companies cut all the wood required from their own limits.

Source: Woodlands Section, Canadian Pulp and Paper Association estimate.

Table 87.
Growth in Employment and Wages

	1915	1951	% increase
Mill workers	15,300	57,291	274
Wages and salaries paid . . .	\$11,000,000	\$213,169,906	1,838

The average wage paid mill workers in 1951 was \$3,531 while the average salary was \$4,688.

Source: Dominion Bureau of Statistics.

Table 88.
Domestic Trade 1951

	Pulp and Paper	Paper
Gross value of production	\$1,237,860,895	\$824,029,649
Exports	939,239,090	574,106,206
For domestic market	\$ 298,621,805	\$249,923,443
Per cent of production retained for domestic use	24.1	30.3

Source: Dominion Bureau of Statistics.

Table 89.
Principal Expenditures 1951

Transportation†	\$ 200,000,000
Chemicals & mill supplies*	94,334,449
Fuel*	48,880,379
Electricity*	26,745,339
Fibre and fibre stock*	19,171,143
Purchased pulpwood**	73,736,956
Foodst†	18,000,000
Fodder†	3,500,000
Taxes & other pay'ts to Gov'ts†	200,000,000
Wages, including woods workers**	379,878,906
	\$1,064,247,172

† Canadian Pulp and Paper Association Estimate.

* Dominion Bureau of Statistics figures.

** Expenditures for purchased pulpwood in 1951 totalled \$115,198,956 from which has been deducted \$41,462,000 covering the estimated wages paid in harvesting this wood. The latter figure is included in the \$379,878,906 shown as wages. See also Table 86.

Table 90.
Purchases of Mill Supplies 1951

Chemicals, minerals, size, glue, dyes, etc.	\$43,121,278
Pulp stones	657,222
Machine clothing (woollen felts)	12,408,300
Miscellaneous supplies	26,232,331
Mill wrapping and packing material	6,921,965
Wire mesh (fourdrinier & cylinder)	4,993,353

Source: Dominion Bureau of Statistics.

Table 91.
Fuel Purchased 1951

Quebec	\$20,452,236
Ontario	14,756,964
British Columbia	5,254,157
Newfoundland, New Brunswick, Nova Scotia & Manitoba	8,417,022

Source: Dominion Bureau of Statistics.

Table 92.
Electricity Purchased 1951

Quebec	\$17,177,435
Ontario	6,222,721
British Columbia	491,480
New Brunswick, Nova Scotia and Manitoba	2,853,703
	\$26,745,339

Note: In addition to purchased electricity the pulp and paper mills own hydro-electric plants which furnished 3,932,661,630 kilowatt hours of electricity to the mills in 1951.

Source: Dominion Bureau of Statistics.

Table 93.
Car Loadings and Revenue Freight Carried

	Car Loadings Calendar Year 1952		Revenue Freight* Carried Calendar Year 1952	
	Carloads	%	Tons	%
Pulp and paper	228,220	5.49	6,528,663	5.21
Pulpwood	229,393	5.51	8,468,201	6.76
	457,613	11.00	14,996,864	11.97
Other forest products	292,986	7.04	9,299,979	7.42
	750,599	18.04	24,296,843	19.39
Agricultural Products				
Grain	558,046	13.41	27,320,931	21.79
Grain Products	149,281	3.59	3,605,617	2.88
Other Agricultural Products	73,577	1.77	2,029,156	1.62
	780,904	18.77	32,955,704	26.29
Animal Products	101,403	2.44	1,293,008	1.03
Mineral Products				
Coal	279,328	6.72	12,232,901	9.76
Coke	32,669	.79	1,271,730	1.01
Ores and Concentrates	183,557	4.41	9,800,731	7.82
Sand, Stone, Gravel, Plaster, Lime, Brick, Cement, Sewer Pipe, Tile	240,943	5.79	10,862,469	8.67
Other Mineral Products	123,269	2.96	6,538,778	5.22
	859,766	20.67	40,706,609	32.48
Gasoline, Petroleum Oils and Products	286,932	6.90	8,065,316	6.43
Iron & Steel products, imple- ments, machines, boilers, autos and parts, canned food & sugar, fertilizer	309,129	7.43	6,476,676	5.17
Other Products of Manufac- tures and miscellaneous	251,904	6.05	9,279,058	7.40
Merchandise, L.C.L.	819,562	19.70	2,270,184	1.81
Total Revenue Cars Loaded	4,160,199	100.	125,343,398	100.

* Loaded at stations in Canada.

Note: Car loadings of pulp and paper and pulpwood in 1952 were equivalent to 676 cars and 753 cars respectively, every day in the year. A proportion of the pulpwood car loadings included pulpwood for export. Deducting an estimate for pulpwood shipped abroad, the pulp and paper industry's car loadings of pulpwood and finished products were equivalent to over eleven trains of 100 cars daily. Annual loadings of pulpwood for the mills and of finished products would thus fill a train 3,465 miles in length. In addition, the pulp and paper industry creates a vast rail traffic of coal, chemicals, and other supplies required for the operations at the mills and in the woods.

Source: Compiled by C.P.P.A. from monthly D.B.S. Memoranda.

Table 94.

**Payrolls and Weekly Earnings
in Important Industries
1951**

Industry	Average Number of Employees	Average Weekly Payrolls	Average Weekly Earnings
Pulp & Paper	53,519	\$3,677,803	\$68.47
Non-ferrous metal products*	50,623	2,906,286	57.38
Chemical products*	49,296	2,742,830	55.58
Meat products	21,150	1,163,362	54.92
Shipbuilding & repairing	16,760	907,336	53.68
Automobiles, parts & accessories	54,112	3,314,821	61.26
Electrical apparatus & supplies	64,601	3,569,397	55.25
Primary iron & steel	35,453	2,149,489	60.53
Rubber products	21,248	1,133,540	53.38
Aircraft & parts	18,709	1,111,280	58.88

Note: Compiled from monthly returns received from establishments employing 15 persons or more. Pulp and paper payrolls do not include woods workers.

* Includes the manufacture of non-ferrous metal products, as well as the smelting and refining of non-ferrous metals.

** Includes all classes of chemical manufactures.

Source: Dominion Bureau of Statistics.

Table 95.

Power Utilization

in 000's of kwh including off-peak power			
	1949	1950	1951
Generated by Central Electric Stations for			
Pulp and paper industry	7,967,897	8,456,863	9,230,524
Other industries	19,635,194	20,200,254	a
Mining companies	2,030,016	2,265,868	a
Domestic customers (homes and farms)	5,678,847	6,750,303	a
Commercial customers, street lighting and free service	2,776,474	3,980,196	a
Export	1,756,752	1,925,867	2,375,420
Line losses, etc.	4,573,393	4,914,367	a
	44,418,573	48,493,718	a
Generated for own use by			
Pulp and paper industry	3,778,110	3,949,244	3,932,662
Other industries	2,120,280	2,316,807	a
Mining companies	263,835	264,232	a
Total electricity generated	50,580,798	55,024,001	a
Less: Exports	1,756,752	1,925,867	2,375,420
Line losses, etc.	4,573,393	4,914,367	a
	44,250,653	48,183,767	a
Plus: Imports	31,205	1,350	7,677
Canadian consumption	44,281,858	48,185,117	a

a: Not available.

Note: The power consumption of the pulp and paper mills accounts for over 27 per cent of all the power generated for industry and for mining. Of the power generated by industry for its own use, the pulp and paper mills accounted for 64.1 per cent in 1949 and 64.9 per cent in 1950. Of the total consumption of electricity in Canada, the pulp and paper mills accounted for 26.5 per cent in 1949 and 25.7 per cent in 1950. There are several single paper mills which alone consume more electric power than all the domestic customers in Montreal combined, indeed which use more power than is required to provide light for the city and all its residents. There are single pulp and paper mills which use half as much power as that consumed by all the industries in the Montreal area.

Source: Dominion Bureau of Statistics.

Table 96.

Exports 1952

Ex gold in millions of dollars		
	Value	%
Forest products	\$1,366.8	32
Agricultural & vegetable products	1,183.5	28
Animal & animal products	237.9	5
All others	1,512.9	35
	\$4,301.1	100

Source: Dominion Bureau of Statistics.

Table 97.

Canadian Exports 1952

Ex gold in millions of dollars		
Wood, Wood Products, and Paper		\$1,366.8
Pulp and Paper	\$914.0	
Pulp	\$291.9	
Newsprint	593.7	
Other Paper	25.5	
Paper Goods	2.9	
Pulpwood		61.8
Planks and Boards		295.9
Other Wood Products		95.1
Agricultural and Vegetable Products		1,183.5
Wheat		621.3
Other Grains		235.2
Flour of Wheat		116.1
Alcoholic Beverages		56.6
Other Vegetable Products		154.3
Animal and Animal Products		237.9
Iron and its Products		407.0
Vehicles, chiefly of iron		115.1
Farm Implements and Machinery		105.4
Other Machinery		47.4
Ferro-alloys		30.4
Other Iron and Steel Products		108.7
Non-ferrous Metals and their Products		706.7
Chemicals and Allied Products		124.6
Non-metallic Minerals and their Products		143.5
Fibres, Textiles and Textile Products		27.7
Miscellaneous Commodities		103.4
Total		\$4,301.1

Source: Dominion Bureau of Statistics.

Table 98.

Pulp, Paper and Mining 1952

Gross value of pulp and paper production	\$1,200,000,000e
Mineral production of Canada	
Gold	\$151,458,664
Other metallics	576,457,557
Coal, gas, peat, petroleum	262,098,250
Other non-metallics	124,304,401
Clay products, cement, lime, stone, sand & gravel	164,046,644
	\$1,278,365,516

e: Canadian Pulp and Paper Association estimate.

Source: Dominion Bureau of Statistics, preliminary estimate.

Table 99.

Ten Leading Canadian Industries 1951

	Gross Value of Production		Salaries and Wages		Employment		Net Value of Production	
	'000 \$	Rank b	'000 \$	Rank b	No.	Rank	'000 \$	Rank b
Pulp and Paper	1,237,897	1	213,170a	1a	57,291a	2a	679,258	1
Slaughtering and Meat Packing	882,114	2	61,775	13	20,898	20	115,870	15
Non-ferrous Metal Smelting and Refining	861,316	3	75,474	8	22,814	15	262,973	4
Motor Vehicles	742,896	4	101,343	4	30,479	7	271,114	2
Petroleum Products	594,460	5	37,283	28	10,889	34	140,231	6
Sawmills	582,420	6	131,497	2	60,564	1	264,130	3
Primary Iron and Steel	462,588	7	108,562	3	33,393	4	207,473	5
Butter and Cheese	372,185	8	47,754	23	21,310	17	82,470	25
Rubber Goods	311,674	9	64,236	12	23,015	14	161,583	6
Railway Rolling Stock	300,627	10	94,029	5	33,410	3	119,895	11

a: Covers only mill workers; the inclusion of the men permanently employed in the woods places pulp and paper first, instead of second, in employment.

b: Rank in Canadian industry as a whole.

Source: Compiled by C.P.P.A. from D.B.S. "Preliminary Statement of Manufactures, 1951".

Table 100.

Gross Value of Canadian Commodity Production

PRIMARY PRODUCTION:			MANUFACTURES:		
	1950	1951		1950	1951
	'000 \$	'000 \$		'000 \$	'000 \$
Agriculture	2,625,978	3,488,389e	Paper Products	1,251,144	1,589,842
Wheat	449,019	820,443e	*Pulp and paper	954,137	1,237,897
All grains (including wheat)	689,844	1,109,724e	Paper boxes and bags	140,657	172,230
Forestry	2,076,821		Wood Products	985,859	1,147,190e
Operations in the woods	625,735		*Sawmills	496,948	582,420e
Fisheries	221,060		Furniture (including mattresses & springs)	172,331	190,907
Trapping	15,204		Sash, door and planing mills	160,720	183,428e
Mining	1,573,701		Printing, Publishing and Allied Industries	413,012	452,143
Mineral production	1,045,450	1,245,484	Food and Beverages	3,029,810	3,450,031
Electric Power	323,833		Slaughtering and meat packing	757,043	892,091
Less Duplication (Forest production on farms)	—139,434		Butter and cheese	330,709	373,746
Total, Primary Production	6,697,163		Flour mills	247,108	280,867
SECONDARY PRODUCTION:			Bread and other bakery products	214,587	245,288
Manufactures	13,817,520	16,270,931e	*Fish curing and packing	128,424	163,010
Construction	2,727,968		Iron and Steel Products	1,524,384	1,904,650
Custom and Repair	464,546		Primary iron and steel	340,540	464,587
Total, Secondary Production	17,010,034		Machinery	160,391	201,990
Less Duplication in Manufactures (See Notes below)	—2,330,312		Agricultural implements	149,500	171,172
Grand Total	21,376,885		Transportation Equipment	1,239,579	1,541,590
* Industries included both in primary and secondary production.			Motor vehicles	675,867	742,896
e: Preliminary estimates. Other figures not yet available.			Railway rolling stock	194,286	300,627
Notes: The gross value of production figures given above, being limited to the annual production of commodities, are not comparable with those of the "gross national product" given in Table 79, which includes transportation, communication, trade, finance and service activities. The methods used are entirely different and the "gross national product" comprises, in addition, depreciation allowances, similar business costs, and indirect taxes less subsidies.			Non-ferrous Metal Products	960,751	1,253,599
While the statistics of gross production are of interest as indicating the amount of revenue produced by the corporations and other operators in the field, the total includes a large element of duplication: often the products of one industry become the materials of other industries. The net value of production obtained by deducting the cost of materials, fuel and electricity is a more accurate measure of the contribution to the national economy.			*Non ferrous metal smelting and refining	669,883	861,316
The value of agricultural production includes forest products produced on farmers' wood lots. As such products are also reported under forestry, the amount of duplication is deducted.			Brass and copper products	126,201	179,998
A survey of production must differentiate between the more important branches and at the same time present a grand total that will be free from overlapping. For example, the products of pulp and paper and sawmills are included in forestry production as being the first finished products of commercial value resulting from the productive process. They may, however, be classified under manufactures in view of the nature of the production process — either allocation being quite correct according to the point of view. Production of such industries is regarded both as primary and as secondary, but the duplication is eliminated from the grand total.			Clothing (Textile and Fur)	734,214	762,999e
A break-down of the manufactures figures is given for the seventeen industrial groups in the adjoining column, which also gives the value of production of the principal industries in each group as well as that of all industries (marked*) included both in the primary and secondary production figures.			Men's factory clothing	226,659	241,069e
Source: Dominion Bureau of Statistics.			Women's factory clothing	194,636	195,025e
			Textile Products (Except Clothing)	741,263	833,366e
			Cotton yarn and cloth	257,384	272,420e
			Synthetic textiles and silk	147,048	166,550
			Chemical and Allied Products	646,870	776,489
			Paints and varnishes	92,999	104,839
			Medicinal and pharmaceutical preparations	76,373	89,249
			Acids, alkalies and salts	87,494	117,823
			Fertilizers	68,997	74,489
			Soaps, washing compounds, etc.	66,048	73,719
			Products of Petroleum and Coal	616,126	709,550
			Petroleum products	511,516	598,941
			Electrical Apparatus and Supplies	580,578	676,009
			Non-metallic Mineral Products	286,541	336,989e
			Glass products	49,659	54,913
			*Cement	38,200	43,024
			Abrasive products	32,837	44,921
			*Clay products from domestic clay	21,791	23,528
			*Lime	12,827	14,670
			*Salt	8,100	9,201
			Leather Products	210,563	221,883
			Boots and shoes, leather	110,969	119,906
			Rubber Products	239,184	311,678
			Tobacco and Tobacco Products	188,330	179,177
			Miscellaneous Manufacturing Industries	169,312	203,324e
			Total	13,817,520	16,350,509e

23597 R

1972

HD 9834

C22C33

1953

MANAGEMENT LIBRARY



